

CLIMATOLOGICAL DATA FOR DECEMBER, 1913.

DISTRICT NO. 6, MISSOURI VALLEY.

MONTROSE W. HAYES, District Editor.

GENERAL SUMMARY.

In most of the district the mild weather of November continued through December. There were no storms of any especial severity, except one that appeared over Colorado on the morning of the 4th and moved eastward over the southern part of the drainage area. This storm caused precipitation in the entire district, but the amounts were light in the northern half. In Colorado and southern Wyoming it was attended by unusually heavy snow; in Colorado the fall was the heaviest ever experienced there in December. In the region covered by the heavy snow live-stock and transportation interests suffered greatly. In the remainder of the district the weather was especially favorable for outdoor pursuits, except that in the northern half there was a scarcity of water, and it was necessary to water stock from wells. South of North Dakota the principal streams remained open practically the entire month, and at Bismarck, N. Dak., the Missouri River did not close until the 22d, which is the latest date on record. In the greater portion of Missouri the last 10 days were continuously cloudy, and the sunshine was about one-third of the possible amount. There was also a deficiency in sunshine in eastern Kansas, but in the remainder of the district there was more bright sunshine than is usual in the last month of the year.

TEMPERATURE.

From a temperature standpoint the principal feature of the month was the extreme range of the departures of the monthly means from the normals. Over more than half of the district there was a pronounced and general excess in temperature, but owing to the persistence of high atmospheric pressure over Colorado there resulted a deficiency in that State and in extreme western Kansas, western Nebraska, Wyoming, and southwestern Montana. The greatest individual excess was 11.9° at Melville, N. Dak., and the greatest average excess for an entire State was 8.8° in North Dakota. The greatest individual deficiency was 12° at Fort Collins, Colo.; the average deficiency for Colorado was 7.5° , which was the greatest for any one State in the drainage area. In Missouri, Kansas, and Iowa the warmest weather was on the 1st and 2d; in the other States of the district the 9th-11th formed the warmest period. The lowest temperatures occurred during the last 10 days of the month, except in the lower part of the drainage area, where the 8th and 9th were the coldest days. There was a phenomenally small range in temperature in Missouri and portions of eastern Kansas and southern Iowa during the last decade. At Columbia, Mo., in the last 11 days the total range was 14° ,

and 1 day had a range of only 1° . At St. Louis, in the same period, the total range was 11° , and for the last 6 days of the month it was 8° . November and December, considered together, make the first half of the winter one of the mildest ever experienced in the eastern part of the district.

PRECIPITATION.

The precipitation was deficient in the northern half of the district, or in the Dakotas, Montana, and northern Wyoming, and there was an excess in the remaining territory. It was especially light in Montana and North Dakota, where the average for the month was about one-fourth of the normal amount. At a number of stations in those States there was no precipitation, while at others mere traces occurred, and there were also stations in South Dakota and northern Wyoming at which there was not a measurable amount during the entire month. Most of the precipitation occurred from the 1st to the 6th, except in Montana, where the first part of the month was dry. The remainder occurred after the 19th. It was mostly in the form of rain, except in the mountain and foothills country. Two marked features of the month were the heavy snow over Colorado and southern Wyoming, and the heavy rains in Kansas. In Colorado the average snowfall was 37.2 inches, and one station reported a fall of 87 inches. In Denver 57.4 inches fell during the month, being the greatest amount to occur in one month in the history of the station. In Kansas the average precipitation was 3.56 inches, the greatest December average of record; at the end of the month the ground in all parts of the State was thoroughly soaked for the first time since early spring. In a large part of Wyoming, Montana, and South Dakota November and December brought very little snow; the ground is dry and dusty, and cattle are still feeding on the open range.

The following are special remarks, made by the section directors, on snowfall in the Black Hills and in that portion of the Rocky Mountains drained by the Missouri River:

South Dakota.—The snowfall was exceptionally light. In the more elevated portions of the Black Hills the amounts on the ground at the end of the month ranged from 3 to 6 inches.

Montana.—The prolonged period of dry weather and mild temperature during the latter part of 1913 resulted in a marked deficiency in the stock of snow usually stored in the mountains at the close of December. There was very little snow in most regions below altitudes of 6,000 feet. Considerable snow fell in the higher mountain ranges during September and October, and some of

this held throughout the mild weather, but only on the north slopes, in timber, and where drifted in gulches. In most sections the surface of the ground is dry and dusty, but that there is considerable moisture beneath, stored from the September and October precipitation, is indicated by the normal stages maintained by the small streams.

Wyoming.—There is probably a normal amount of snow over the southern watershed of the North Platte River and in the Yellowstone Park. In the remainder of the State there is very little.

Colorado.—The distribution of snow during the month was unusual, and exceptionally heavy falls occurred in districts where normally the amounts in December are small. The region of abnormally heavy snowfall included the Front Range, the eastern extension of the Continental Divide, the eastern slope of the Medicine Bow Range, and

the adjacent foothill regions of these ranges. Throughout this area the snowfall was many times the usual amount, and represented a water content of from six to eleven times the normal for December. In the region drained by the upper South Platte an excess was general, but in no instance did it equal the values common on the eastern slope. The average depths on the ground at the end of December, as compared with the corresponding date last year, were as follows: South Platte watershed, 29 inches, or + 22 inches. North Platte watershed, 18 inches, or + 6 inches.

RIVERS.

The river stages were low. There was very little floating ice in the Missouri and that stream was open at the end of the month in the stretches below North Dakota.

TABLE 1.—Climatological data for December, 1913. District No. 6, Missouri Valley.

Stations.	Counties.	Elevation, feet.	Length of record, years	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Number of cloudy days.	Prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelting.	Number of rainy days 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.				
<i>Wyoming.</i>																					
Arapahoe.	Fremont.	5,200	3	5.1	-5.1	56	7	-17	29	56	0.85	-0.08	0.20	11.8	6	20	6	nw.	Edw. L. Seymour.		
Basin.	Bighorn.	8,882	14	13.7	-5.1	56	7	-17	29	56	0.17	-0.08	0.17	3.0	1	26	4	nw.	O. J. Robertson.		
Big Creek Station.	Carbon.	7,500	2																U. S. Forest Service.		
Boyd.	Weston.	6,192	3	22.8	-	51	11	-3	25	49	0.11	-	0.07	1.3	2	21	7	sw.	Kirk Baker.		
Burns.	Laramie.	8,400	3	21.0	-	48	30	-2	20	36	2.20	-	0.50	22.0	6	16	10	sw.	E. W. Bastian.		
Casper.	Natrona.	5,101	4	20.9	-	44	15	-11	21	46	1.10	-	0.62	13.5	4	23	2	nw.	Jos. A. Murray.		
Centennial.	Albany.	8,074	10	18.7	-2.4	43	14	-7	20	36	2.94	+1.90	1.35	31.6	13	18	3	w.	Louis A. Gregory.		
Cheyenne.	Laramie.	6,088	42	29.0	-7.0	45	31	-12	25	44	2.00	+1.69	0.94	21.4	7	9	12	nw.	U. S. Weather Bureau.		
Chugwater.	Platte.	5,282	12	21.6	-6.1	50	31	-6	22	29	0.10	-	1.04	28.0	7	22	3	w.	A. H. Woolever.		
Clark.	Park.	4,320	8	25.8	-	48	31	-	20	33	2.54	+1.55	0.10	1.0	T.	T.	0	19	8	n.	Chas. A. C. Snow.
Cody.	do.	5,000	6	24.0	-	50	7	1	21	37	T.	-						5	3	n.	D. A. Tinkcom.
Crandall Creek.																			Ira H. Sparhawk.		
Dome Lake.	Sheridan.	8,821	5	19.8	-	45	10	-1	20	33	1.60	-	1.00	16.0	5	20	6	sw.	Abe Mills.		
Douglas.	Converse.	4,793	4	10.8	-	55	5	-19	21†	52	1.20	-	0.55	12.5	3	23	0	nw.	Henry C. Miller.		
Dubois.	Fremont.	6,909	6	21.0	-	53	13	-13	20	50	0.16	-	0.04	2.0	4	18	10	nw.	Dr. F. H. Welty.		
Eatons Ranch.	Sheridan.	4,800	8	31.9	-	61	9†	4	20	35	0.40	-	0.20	4.0	3	25	4	2	F. A. Eaton.		
Echeta.	Campbell.	4,200	4									-	0.10	1.0	1	19	8	4	M. R. Hunter.		
Elk Mountain.	Carbon.	8										-	0.55	25.5	8				Wm. Richardson.		
Encampment.	do.	7,322	4	18.2	-	45*	8	-15	22	42*	0.57	-	0.22	8.0	7	10	11	5*	U. S. Forest Service.		
Ervay.	Natrona.	6,400	4	20.6	-	41	9†	-4	4	33	0.80	-	0.63	16.0	3	16	10	sw.	Frank Jameson.		
Fort Laramie.	Goshen.	4,270	35	18.2	-9.1	40	4†	-11	25	48	1.50	+1.02	0.70	13.5	5	14	12	w.	John Hunton.		
Forpark.	Albany.	9,015	3									-							U. S. Forest Service.		
Germany.	Bighorn.	4,312	2	18.0	-	39	12	-5	22	35	0.17	-	0.09	1.0	2	27	1	3	J. W. Peper.		
Gillette.	Campbell.	4,546	7									-							M. H. Shields.		
Horse Creek.	Fremont.	8,000	1									-							U. S. Forest Service.		
Hunters Station.	Johnson.	8,000	7	23.4	-	58	10	0	20†	46	0.19	-	0.11	4.0	2	22	5	4	Do.		
Hyattville.	Bighorn.	4,632	14									-							Wm. Booth.		
Jrle.	Niobrara.	5,100	3									-							P. L. Ford.		
Kinnear.	Fremont.											-							John C. Hays.		
Kirtley.	Niobrara.	9	21.2	-2.9	44	11	-11	25	34	1.47	+0.92	0.80	17.0	3	21	2	8	nw.	D. M. Zum Brunnen.		
Kirwin.	Park.	9,187	4									-							C. L. Tewksbury.		
Knowles.	Crook.	4,500	4									-							Geo. A. Knowles.		
Lagrange.	Goshen.	4,720	3	21.0	-	43	31	-2	22†	35	2.59	-	0.65	27.5	8	18	5	sw.	Owen Shupp.		
Lander.	Fremont.	5,372	21	10.6	-8.6	46	31	-21	22	51	1.05	+0.35	0.48	13.9	4	13	10	sw.	U. S. Weather Bureau.		
Laramie.	Albany.	7,188	22	9.9	-11.8	40	14	-27	21	51	1.90	+1.49	1.11	18.9	7	22	2	7	University of Wyoming.		
Leo.	Carbon.	6,878	11									-							C. A. Cowdin.		
Lolama Ranch.	Park.	7,052	9	27.3	+4.8	57	10	-16	21	45	0.05	-0.16	0.05	1.0	1	25	5	1	w.	Mary E. Painter.	
Lovell.	Bighorn.	3,825	7									-							R. Fred Harrison.		
Lusk.	Niobrara.	5,007	22	21.2	-4.0	45	10	-12	25	45	0.64	+0.02	0.55	7.0	2				D. E. Goddard.		
Manville.	do.	5,050	3									-	0.40	12.5	7	12	11	8	L. C. Stoddard.		
Mooretown.	Crook.	4,311	9	24.7	-	50	9†	3	23	37	0.13	-	0.10	2.6	3	18d	4d	5d	C. T. McCampbell.		
Moore.	Albany.	6,000	12	21.6	-6.3	40	31	3	21†	31	1.72	+1.17	0.72	17.8	8	11	13	w.	Edwin Moore.		
Newcastle.	Weston.	4,319	6	26.4	-	48	12†	2	20	26	0.10	-	0.05	1.0	2	22	3	6	Dr. S. W. Johnson.		
Pathfinders.	Natrona.	5,735	7	18.8	+0.8	35	14†	-8	21	26	0.97	+0.46	0.47	11.7	4	18	8	5	U. S. Reclamation Service.		
Pinebluff.	Crook.	5,038	10	21.8	-6.9	49†	11	-10	25†	47*	3.25	+2.54	1.48	30.2	6				C. L. Beatty.		
Pine Ridge.	Crook.	1										-	0.32	5.5	3	8	17	6	J. E. S. Altaffer.		
Powell.	Park.	4,376	5	19.4	-	43	6	-6	29†	34	0.12	-	0.12	1.5	1	22	5	4	U. S. Reclamation Service.		
Rawlins.	Carbon.	6,748	11	16.4	-7.9	35	31	-18	21	36	0.82	-0.01	0.25	9.0	7	11	11	9	E. J. Ehrenfeld.		
Rock River.	Albany.	6,900	11	11.0	-	35	31	-21	21	51	1.94	-	1.05	23.1	4	25	1	5	Rock Creek Conservation Co.		
Rocky point.	Crook.	1										-	0.12	3.5	3	21	6	4	s.	P. Woxen.	
Saratoga.	Carbon.	6,785	15	13.0	-8.7	40†	31	-22	21†	44*	0.87	-0.24	0.45	10.0	4	16*	2*	8	sw.	R. G. Hamilton.	
Seven-Mile Creek.	do.	2										-							U. S. Forest Service.		
Sheridan.	Sheridan.	3,790	18	24.4	+0.1	56	9	-5	25	44	0.12	-0.56	0.06	1.9	4	18	6	7	se.	U. S. Weather Bureau.	
Shoshone Dam.	Park.	5,385	7	31.6	-	52	7	-20	27	46	0.34	-	0.32	3.4	2	23	4	5	sw.	U. S. Weather Bureau.	
South Pass City.	Fremont.	7,786	11	13.0	-1.5	40	9	-21	20	46	0.25	-0.55	0.07	6.5	6	17	7	7	sw.	John Sherlock.	
Sundance.	Crook.	4,750	1									-							Geo. W. Ashdown.		
Thermopolis.	Hot Springs.	4,350	10	21.4	+0.5	47	6	-6	20	42	0.49	-0.08	0.27	7.5	5	19	9	3	sw.	A. L. Duhig.	
Ulm.	Sheridan.	4,448	1	26.8	-	55	9	3	30	39	T.	-	T.	0	14	14	3	se.	W. H. Coleman.		
Upton.	Weston.	1	18.8	-	42	9†	7	22	42	0.19	-	0.15	2.5	3	20	5	5	se.	Ray C. Thompson.		
Verona.	Sheridan.	4,360	4								-	0.04	0.8	1	20	6	5	se.	O. A. Roode.		
Wheatland.	Platte.	4,700	2	19.6	-	54	31	-13	18†	53	0.04	-	2.10	29.0	5	10	9	12	w.	C. A. Rockwell.	
Wiant Ranch.	Carbon.	7,400	3								-	1.11	0.40	20.0	7	14	10	7	sw.	Ira G. Wiant.	
Woodrock.	Sheridan.	8,500	2								-								U. S. Forest Service.		
Worland.	Washakie.	4,033	2	24.8	-	42	10†	-11	29	42	0.17	-	0.10	1.7	3	22	7	2	nw.	Prof. B. C. Buffum.	
Wyncote.	Goshen.	4,186	6	18.4	-	47	1	-11	25	44	0.26	-	0.90	19.0	6	18	10	3	nw.	U. S. Reclamation Service.	
Yellowstone Park.	Yellowstone Park.	6,200	25	21.1	-0.5	41	11	-2	21	30	0.25	-1.57	0.24	1.0	2	27	7	7	s.	U. S. Weather Bureau.	
Fountain.	do.	7,220	7	12.6	-	40	6†	-15	21†	47	0.40	-	0.20	4.0	3	24	4	3	sw.	U. S. Army.	
Gallatin.	do.	7,400	6	5.6	-	33	8†	-27	20	42	0.13	-	0.05	1.3	5	19	2	10	w.	Do.	
Grand Canyon.	do.	7,733	9	11.8	-	40	6	-25	28	61	0.70	-	0.40	7.0	2	23	0	9	sw.	Do.	
Lake Yellowstone.	do.	7,500	9	11.4	-	45	5	-24	29	59	0.88	-	0.72	11.0	2	20	2	2	sw.	Do.	
Norris.	do.	6,500	7	12.4	-	33	3†	-21	21	53	0.40	-	0.20	4.0	4	22	3	1	sw.	Do.	
Riverside.	do.	8,000	8	14.6	-	41	25	-7	21	49	0.90	-	0.30	8.0	4	23	1	7	sw.	Do.	
Soda Butte.	do.	7,000	6	15.7	-	40	11	-													

TABLE 1.—Climatological data for December, 1913. District No. 6—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Montana—Continued.																				
Canyon Ferry.	Lewis and Clark.	3,670	14	21.0	-1.4	52	9	1	21	81	0.20	-0.19	0.18	2.0	2	29	1	1	nw.	W. L. Kirk.
Cascade.	Cascade.	3,203	8	33.0	.....	55	11	-9	20	41	0.30	0.16	0.15	4.5	4	19	9	3	sw.	Dr. E. E. James.
Chester.	Hill.	3,132	9	25.6	.....	72	10	-9	25	68	0.16	0.16	0.16	2.0	1	24	7	0	nw.	C. F. Baker.
Chinook.	Blaine.	2,602	14	23.4	+ 2.6	53	11	-4	24	43	T.	-0.43	T.	.....	0	23	6	2	w.	T. O. Hanlon Co.
Clydepark.	Park.	5,027	1	21.6	.....	49	10	-9	4	50	0.05	0.05	0.05	1.0	1	21	6	4	n.	J. H. Eyman.
Conrad.	Teton.	3,501	2	27.2	.....	60	9†	-1	24	46	T.	.....	T.	.....	0	22	4	5	sw.	Robert J. Kelly.
Copper.	Meagher.	5,680	8	.....	.....	.....	.....	.....	.....	.....	0.09	0.08	0.08	1.0	2	24	3	4	w.	Orville Harris.
Cow Agency.	Big Horn.	3,041	30	25.8	+ 2.1	55	10	-9	22	44	T.	-0.73	T.	.....	0	29	2	0	s.	Harry Throssell.
Culbertson.	Sheridan.	1,927	10	23.0	+ 8.7	55	11	-6	20	45	T.	.....	T.	.....	0	19	10	2	w.	G. H. Coulter.
Cut Bank.	Teton.	3,745	14	26.7	+ 3.8	60	19	-6	20	55	0.00	-0.59	0.00	0	0	20	9	2	w.	Chas. N. Thomas.
Denton.	Fergus.	3,500	4	30.3	.....	63	11	1	20	33	0.19	0.10	0.10	3.6	2	20	4	7	se.	P. J. Griesauer.
Dillon.	Beaverhead.	5,143	15	26.2	-0.4	48	15	0	21	37	0.27	-0.51	0.10	2.7	4	15	10	6	sw.	Prof. J. E. Monroe.
Dunkirk.	Hill.	3,450	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	23	3	0	w.	B. C. Protzman.
Ekalaka.	Custer.	12	27.4	+ 6.0	52	10†	-8	20	38	T.	.....	T.	.....	0	0	26	5	1	w.	William Freese.
Fallon.	do.	2,208	23	25.0	.....	50	10†	-9	20	45	0.00	0.00	0.00	0	0	23	8	0	w.	Mrs. A. C. Gifford.
Findon.	Meagher.	6,000	1	28.8	.....	54	10†	5	20	29	0.03	0.01	0.6	2	24	2	5	w.	Lewis Cameron, sr.	
Flathead Creek.	Gallatin.	6,000	2	20.8	.....	49	1	-6	20	47	1.18	0.98	0.98	4.0	3	22	0	9	.....	Alta Williams.
Flatwillow.	Fergus.	29.0	.....	.....	.....	61	11	0	21	45	0.08	0.03	0.03	1.0	1	14	11	6	.....	W. Johnson.
Forsyth.	Rosebud.	2,514	6	26.2	.....	59	10	-4	25	45	0.08	-0.37	0.06	0.8	2	16	13	2	sw.	H. Mackenzie.
Fort Shaw.	Cascade.	3,500	24	31.2*	+ 5.8	53	9†	-2	24	40	0.08	-0.37	0.06	2.2	2	25	3	3	sw.	U. S. Reclamation Service.
Foster.	Big Horn.	2,800	3	28.8	.....	58	9	-9	25	52	0.13	0.12	0.12	1.6	2	18	8	5	w.	E. K. Bowman.
Garnett.	Fergus.	5,500	4	25.6	.....	52	10	1	21	36	0.04	0.24	0.24	8.0	5	18	10	6	sw.	Thos. E. Scally.
Geyser.	Cascade.	4,147	26.8	.....	50	10	1	20	30	0.06	0.04	0.14	3.0	1	18	8	5	w.	L. G. Finrock.	
Glacier Park.	Teton.	28.8	.....	.....	50	10	1	20	30	0.06	0.04	0.04	2.0	2	27	1	3	w.	W. J. Gillie.	
Glasgow.	Valley.	2,092	16	25.2	+ 7.4	52	13	-5	20	42	0.00	-0.62	0.00	0	0	25	1	5	s.	C. D. Bauer.
Glandive.	Dawson.	2,069	22	25.2	+ 7.4	52	13	-5	20	42	0.00	-0.62	0.00	0	0	25	1	5	s.	E. C. Leonard.
Golubutte.	Hill.	3,500	5	26.3	.....	54	10†	3	20	35	0.01	0.01	0.2	1	1	19	7	5	s.	Joseph Berthelote.
Graham.	Custer.	7	26.0	.....	54	9	-5	20	38	0.05	0.03	0.03	2.5	3	24	3	4	sw.	J. S. Rue.	
Great Falls.	Cascade.	3,580	21	34.4	+ 6.5	53	11†	1	20	32	0.27	-0.28	0.10	3.0	2	24	6	1	sw.	S. H. Bauman.
Harlowton.	Meagher.	4,160	5	24.8	.....	55	16	-2	25	50	0.00	0.00	0.00	0	0	14	6	11	w.	Joseph Muir.
Havre.	Hill.	2,505	33	23.6	+ 2.4	52	10	-6	20	40	0.02	-0.61	0.02	0.2	1	20	4	7	sw.	U. S. Weather Bureau.
Hebgen Dam.	Gallatin.	6,700	7	12.4	.....	35	7†	-18	26	34	0.61	0.30	0.30	11.0	2	22	2	7	s.	T. L. Carson.
Helena.	Lewis and Clark.	4,110	33	24.2	-0.6	46	15	5	21	25	0.11	-0.68	0.11	1.4	2	15	7	9	s.	U. S. Weather Bureau.
Highwood.	Chouteau.	4,300	6	.....	.....	52	10	1	20	33	0.23	0.23	0.23	2.6	2	23	6	6	sw.	W. S. McCord.
Huntley.	Yellowstone.	3,037	7	26.6	.....	55	10	-4	20	35	0.23	0.08	0.08	6.0	3	28	1	2	w.	U. S. Reclamation Service.
Knobles Ranch.	Hill.	2	.....	.....	.....	55	10	-4	20	35	0.23	0.08	0.08	6.0	3	28	1	2	s.	F. H. Knoble.
Lewistown.	Fergus.	4,000	15	27.2	+ 1.9	61	10	0	22	39	0.36	-0.43	0.31	9.5	3	19	8	4	se.	W. W. Watson.
Lima.	Beaverhead.	2,053	1	16.8	.....	42	11	-7	21	36	0.16	0.06	0.06	3.0	4	23	4	4	se.	H. J. Barber.
Lonetree.	Chouteau.	3,280	7	.....	.....	56	9	-8	21	35	T.	.....	T.	.....	0	24	4	3	s.	E. Wilson.
Lothair.	Hill.	3,301	1	21.0	.....	46	11	-9	24	37	0.15	0.15	0.15	1.5	2	21	6	4	w.	James H. Whiteley.
Lytle.	Chouteau.	1	29.2	.....	56	9	-8	21	32	T.	.....	T.	.....	0	24	3	4	sw.	J. F. Fait.	
Malta.	Valley.	2,250	6	16.7	.....	42	15	-8	21	32	0.02	0.02	0.02	1.0	1	14	11	6	w.	U. S. Reclamation Service.
Medicine Lake.	Sheridan.	1,968	2	20.2	.....	53	13	-8	21	37	0.08	0.08	0.08	1.0	1	27	4	0	s.	J. S. Collier.
Melstone.	Musselshell.	2,903	1	26.2	.....	61	10	-1	21	42	0.04	0.04	0.04	5.1	2	26	3	2	sw.	C. W. Greening.
Mildred.	Custer.	2,364	4	.....	.....	55	10	-5	20	42	T.	.....	T.	.....	0	19	11	1	sw.	Leon B. Clark.
Miles City.	do.	2,371	21	27.7	+ 6.7	55	9	2	25	40	0.02	-0.60	0.01	0.1	2	25	6	0	s.	Montana Power Co.
Norris.	Madison.	4,845	6	27.0	.....	54	8	5	25	38	0.19	0.16	0.16	2.7	2	19	9	3	s.	G. W. White.
Pinegrove.	Musselshell.	1	31.4	.....	51	5†	8	20†	26	0.30	0.10	0.10	4.2	3	21	8	2	sw.	C. C. Conser.	
Plevna.	Custer.	2,757	1	25.2	.....	55	10	-1	20	41	T.	.....	T.	.....	0	18	9	4	w.	H. M. Cosier.
Poplar.	Sheridan.	2,020	27	22.2	+ 6.8	51	9	-1	21	33	0.11	-0.49	0.06	1.0	0	18	6	2	se.	I. A. Draper.
Red Lodge.	Carbon.	5,543	13	24.0	-0.9	51	9	-1	20	37	T.	-0.42	T.	.....	0	18	4	9	sw.	F. B. Elmer.
Renova.	Jefferson.	4,360	14	24.0	-3.2	47	7	-5	20	37	T.	.....	T.	.....	0	18	4	9	w.	H. W. Scherfenberg.
Ryegate.	Musselshell.	3,640	3	26.0	.....	61	10	-11	19	54	0.11	0.08	0.08	4.0	2	25	2	4	w.	Cyrus Bellah.
St. Mary's Lake.	Teton.	33.9	.....	.....	48	9	17	20	38	T.	.....	T.	.....	0	14b	14b	1b	sw.	U. S. Reclamation Service.	
Savage.	Dawson.	1,985	7	24.0	.....	52	11	-7	25	46	T.	.....	T.	.....	0	20	5	6	w.	Olaif C. Field.
Shelby.	Teton.	3,176	1	23.2	.....	53	11	-7	25	46	T.	.....	T.	.....	0	22	7	6	sw.	P. F. Blake.
Sidney.	Dawson.	2	21.5	+ 6.3	57	10	-9	20	42	0.04	-1.00	0.02	0.4	2	19	10	1	s.	Mrs. H. L. Miller.	
Springbrook.	Custer.	11	26.5	+ 6.3	56	11	3	20	32	T.	.....	T.	.....	0	26	2	3	w.	C. A. Newman.	
Stacy.	Blaine.	28.9	.....	.....	56	11	-3	20	39	0.24	0.24	0.24	3.0	1	24	1	6	w.	C. R. Noyes.	
Sunlight Farm.	Blaine.	3,170	1	22.4	.....	53	10	-10	20	39	0.24	0.13	0.13	0.0	0	18	3	10	w.	U. S. Reclamation Service.
Sun River Canyon.	Teton.	4,650	1	32.4	.....	61	16	-11	20	34	0.13	0.08	0.08	2.7	2	22	2	1	sw.	C. E. Adams.
Three Forks.	Gallatin.	4,086	34	20.2	.....	45	7†	-1	24	39	0.13	0.08	0.08	5.0	2	22	1	1	s.	P. W. Korrell.
Utica.	Fergus.	5,000	18	33.2	+ 6.8	58	10	-11	24	31	0.26	-0.29	0.19	0.19	1	24	3	4	w.	B. M. Bean.
Valentine.	do.	2,800	6	24.0	.....	53	9†	-7	21	43	0.02	0.02	0.02	1.5	1	24	3	4	w.	Ford, Bacon & Davis.
Valler.	Teton.	1	28.8	.....	52	10	-3	20	44	0.00	0.00	0.00	0	0	17	12	2	sw.	D. L. Dolg.	
Wall Rock Mountain.	Musselshell.	5,600	4	.....	.....	.....	.....	.....	.....	.....	0.18	0.18	0.18	6.8	4	17				

TABLE 1.—Climatological data for December, 1913. District No. 6—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years	Temperature, in degrees Fahrenheit.							Precipitation, in inches.							Sky.	Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
North Dakota—Contd.																				
Marshallmoor.	Stutsman.	2,225	19	21.2	48	12	— 18	25	42	0.20	—	0.20	2.0	1	—	—	—	sw.	H. H. McCumber.	
Medora.	Billings.	1,590	15	24.2*	+ 11.9	55*	11	— 12*	25	38*	0.30	— 0.05	0.30	3.0	1	—	—	—	sw.	E. B. Brewster.
Melville.	Foster.	2,424	6	22.6	—	56	15	— 6	20	41	0.21	—	0.10	2.0	3	16	9	nw.	J. P. Kidder.	
Mott.	Hettinger.	1,955	21	21.8	+ 8.8	50	10†	— 14	25	37	0.55	+ 0.06	0.45	1.0	0	23	6	sw.	O. H. Opland.	
Napoleon.	Logan.	2,400	19	24.9	+ 6.4	59	10	— 7	20	56	0.00	— 0.42	0.00	0	0	23	6	nw.	C. J. Hoot.	
New England.	Hettinger.	1,531	2	—	—	56	11	— 4	20	36	0.10	—	0.10	1.0	1	20	7	sw.	J. M. Connolly.	
New Rockford.	Eddy.	2,163	8	24.6	—	56	10	— 5	20	38	0.15	—	0.15	2.0	1	20	6	nw.	J. V. M. Sundberg.	
New Salem.	Morton.	—	4	23.9	—	56	10	—	T.	T.	—	—	T.	—	0	—	—	sw.	J. Christiansen.	
Orange.	Adams.	—	—	—	—	—	—	—	—	—	—	—	—	—	0	—	—	nw.	J. E. Goforth.	
Ranger.	Billings.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	nw.	R. E. Sheriff.	
Ronda.	Mercer.	1,857	16	22.4	+ 10.2	55	10	— 6	20†	43	—	—	—	—	—	—	—	nw.	H. A. Crandall.	
Steels.	Kidder.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	s.	H. S. Wood.	
Turtle Lake.	McLean.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	w.	E. G. Ranum.	
Washburn.	do.	1,754	15	23.6*	+ 9.2	50*	12	— 24	20†	36*	T.	— 0.26	T.	T.	0	2	4	7	sw.	Karl Klein.
Williston.	Williams.	1,875	34	22.7	+ 9.1	50	10	— 2	24	31	T.	— 0.66	T.	T.	0	13	12	6	sw.	U. S. Weather Bureau.
South Dakota.																				
Aberdeen.	Brown.	1,300	23	25.8	+ 9.3	54	12	— 10	25	40	0.03	— 0.84	0.03	T.	1	11	12	2	s.	D. G. Gallett.
Academy.	Charles Mix.	14	30.0	+ 6.5	58	11	— 2	25	42	0.23	— 0.53	0.12	0.1	4	22	2	7	w.	I. T. Lothrop.	
Alexandria.	Hanson.	1,382	25	29.6	+ 8.5	60	2	— 7	25	40	0.08	— 0.55	0.08	T.	1	22	3	8	se.	C. H. Stillwell.
Ardmore.	Fall River.	3,557	2	23.4	—	47	16	— 7	25	37	0.92	—	0.43	10.2	4	—	—	—	sw.	F. L. Kelso.
Armour.	Douglas.	1,521	18	25.8	—	—	—	—	—	—	—	—	—	—	—	—	—	nw.	T. J. Markey.	
Bellefourche.	Butte.	3,000	5	25.8	—	69	11	— 7	25	55	0.24	—	0.22	3.5	2	17	12	2	nw.	U. S. Reclamation Service.
Blunt.	Hughes.	1,621	—	—	—	50	9†	— 16	25	37	0.60	—	0.43	0	2	24	4	3	nw.	James A. Howard.
Britton.	Marshall.	1,354	—	23.2	—	—	—	—	—	—	—	—	—	—	—	—	—	nw.	W. S. Given.	
Brookings.	Brookings.	1,636	24	26.4	+ 7.1	58	11	— 10	25	41	0.09	— 0.46	0.09	0	1	18	4	9	nw.	Experiment Station.
Bryant.	Hamlin.	1,848	1	—	—	—	—	—	—	—	0.08	—	0.07	T.	2	17	7	7	sw.	E. D. Landon.
Camp Crook.	Harding.	3,000	20	25.4*	+ 1.8	59*	10	— 12	20	43*	0.04	— 0.36	0.03	0.4	2	23	3	5	nw.	U. S. Forest Service.
Canion.	Lincoln.	1,248	18	27.2	+ 5.1	58	11	— 2	21†	39	0.15	— 0.46	0.15	0	1	20	2	9	se.	John H. Holsey.
Castlewood.	Hamlin.	1,685	8	25.5	—	57	11	— 12	25	43	0.10	—	0.08	T.	3	17	3	11	nw.	M. N. Bradley.
Centerville.	Turner.	1,229	16	28.9	—	60	11	— 0	25†	37	0.18	— 0.69	0.06	T.	5	14	7	10	se.	Frank Williams.
Chamberlain.	Brule.	1,363	14	26.8	+ 2.8	48	11	— 4	25	35	—	—	—	—	—	25	0	6	nw.	W. B. Van Horn.
Clark.	Clark.	1,779	21	26.5	+ 7.7	53	11	— 8	25	35	0.16	— 0.45	0.12	T.	2	20	6	5	nw.	O. H. La Craft.
Cottonwood.	Stanley.	2,414	5	27.6	—	55	11	— 5	20	44	0.38	—	0.24	3.0	3	16	7	8	sw.	Experiment Station.
Custer.	Custer.	5,316	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	nw.	R. P. Ings.
Daviston.	Perkins.	—	3	26.6	—	61	10	— 6	21	40	0.12	—	0.10	1.2	2	22	6	3	nw.	Dyson Byers.
Deadwood.	Lawrence.	4,535	4	28.1	—	55	10	— 2	20	36	0.32	—	0.15	2.2	3	25	3	3	nw.	E. E. Grimshaw.
Deerfield.	Pennington.	6,000	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	nw.	Frank E. Miller.
De Smet.	Kingsbury.	1,728	20	25.4	+ 7.0	54	11†	— 9	25	42	—	—	—	—	—	—	—	—	nw.	S. W. White.
Dowling.	Stanley.	2,250	4	27.6	—	50	10†	— 0	20	38	0.60	—	0.40	6.8	2	20	3	8	nw.	M. P. Dowling.
Dumont.	Lawrence.	6,195	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	nw.	A. B. Wood.
Eales.	Potter.	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	nw.	A. H. Peterson.
Elk Mountain.	Perkins.	4,700	4	25.6	—	55*	9†	— 9*	20	43*	0.06	—	0.40	2.6	5	22	3	6	nw.	James E. Blaine.
Ellingson.	McPherson.	1,884	4	23.2	—	50	13	— 13	25	38	0.52	—	0.43	1.0	1	21	5	7	sw.	Carl G. Moen.
Eureka.	Fairfax.	9	29.8	+ 4.2	58	11	— 0	25	36	0.50	—	0.20	T.	4	22	3	6	nw.	C. G. Stevenson.	
Faith.	Meade.	2,560	25	20.0	—	51	10	— 3	20	35	0.85	—	0.47	9.0	3	13	6	5	nw.	Robert R. Saul.
Faulkton.	Faulk.	1,595	18	25.8	+ 7.4	54	10	— 11	25	39	0.35	— 0.09	0.20	T.	2	22	1	8	se.	Miss Belle Talcott.
Forestburg.	Sanborn.	1,231	21	—	—	69	12	— 11	25	37	0.16	— 0.41	0.08	—	3	20	7	7	se.	S. Judy.
Fort Meade.	Meade.	3,624	30	32.3	+ 4.7	69	12	— 1	25	37	0.30	— 0.34	0.30	3.0	1	26	5	0	s.	Post Hospital.
Goldfield.	do.	—	30.0	—	57*	15	— 3	22	40*	0.26	—	0.19	5.5	3	19	7	5	nw.	A. M. Alexander.	
Greenmont.	Lawrence.	6,430	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	nw.	H. C. Hoffbauer.
Greenwood.	Charles Mix.	19	30.7	+ 4.7	61	11	— 2	25†	39	0.22	— 0.44	0.11	1.0	3	16	8	7	se.	T. C. Williamson.	
Hardingrove.	Stanley.	1	26.0	—	49	16	— 2	20	33	0.57	—	0.41	5.5	2	19	5	7	nw.	Henry L. Thielmann.	
Hardy Ranger Station.	Lawrence.	6,600	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	nw.	Rufus J. Pilcher.
Harveys Ranch.	do.	6,282	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	nw.	Jerome Harvey.
Hermosa.	Custer.	3,278	7	30.8	+ 4.1	62	10	— 2	19†	40	0.24	— 0.40	0.22	2.5	1	22	2	7	nw.	S. M. Booth.
Hightmore.	Hyde.	1,890	20	27.1	+ 7.1	50	10†	— 7	25	38	0.28	— 0.12	0.15	0	4	22	1	8	sw.	Experiment Station.
Hopewell.	Stanley.	3	27.6	—	54	10†	— 1	20	36	0.32	—	0.15	2.2	4	17	7	7	nw.	E. R. Myers.	
Hot Springs.	Fall River.	3,443	30.8	—	58	13	— 6	21†	38	0.71	—	0.35	5.5	4	19	2	10	nw.	John S. Goodrell.	
Howard.	Miner.	1,584	21	25.7	+ 5.9	51†	11	— 11	25	42*	0.10	— 0.39	0.06	T.	8	23	2	6	nw.	M. A. Shuster.
Howell.	Hand.	11	25.2	+ 8.1	57	12†	— 14	25	49	0.08	— 0.49	0.04	T.	8	23	2	6	nw.	U. S. Weather Bureau.	
Huron.	Beadle.	3,06	26.6	+ 10.9	57	11	— 10	25	38	0.05	—	0.57	0.05	T.	2	13	11	10	s.	H. J. Dailey.
Ipswich.	Edmunds.	1,530	25	26.6	+ 9.2	56	10	— 5	20	31	0.09	— 0.24	0.06	T.	2	13	11	7	nw.	Rev. Glenn H. Shaw.
Kadoka.	Stanley.	2,467	4	27.4	—	56	11	— 6	20	45	0.39	—	0.25	3.0	4	18	4	9	nw.	R. C. Van Horn.
Kennebек.	Lyman.	1,689	20	28.0	+ 7.0	58	10	— 6	25	45	1.10	+ 0.63	0.60	0.5	2	22	2	7	nw.	G. D. Rose.
Kimball.	Brule.	1,788	22	28.8	+ 6.9	58	9	— 3	25	37	0.05	— 0.55	0.05	T.	1	23	2	6	nw.	E. L. Ebbert.
La Delle.	Spink.	1,400	16	27.0	+ 9.9	52	12	— 15	25	43	0.28	— 0.36	0.28	T.	1	23	3	5	nw.	Herbert Fuller.
Lead.	Lawrence.	5,200																		

TABLE 1.—Climatological data for December, 1913. District No. 6—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Number of overcast days.	Prevailing wind direction.	Observations.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeted.	Sky.									
South Dakota—Contd.																								
Roslyn.	Day.	7	24.2	+ 8.8	52	12	— 17	25	34	0.32	0.30	0.2	2	19	4	8	sw.	O. O. Floran.						
Sioux Falls.	Minnehaha.	1,200	22	+ 8.4	59	13	— 3	25	37	0.14	- 0.65	0.08	0	3	14	6	11	se.	J. H. Bechtold.					
Sorrell.	Perkins.	2										0.16	1.0	1	24	2	2	nw.	M. S. Eberhart.					
Spearfish.	Lawrence.	3,647	24	+ 0.5	64	10	— 2	20	33	0.10	- 0.71	0.07	3.5	2	22	7	2	nw.	A. E. Johnson.					
Stephan.	Hyde.	1,840	9	+ 6.5	50	11†	— 10	25	38	0.35	- 0.18	0.17	T.	3	23	3	5	nw.	Rev. A. Mattingly.					
Tama.	Meade.	3	25.7		55	10†	— 2	23†	43	0.25		0.25	3.0	1	17	8	6	nw.	E. J. Lehman.					
Timber Lake.	Dewey.	2,163	1	23.4	57	1	— 1	20	35	0.37		0.87	6.0	23	3	3	w.	W. E. Prann.						
Tyndall.	Bonhomme.	1,418	16	+ 4.5	64	11	— 1	25	40	0.32	- 0.28	0.14	1.0	4	19	5	7	nw.	F. F. Chladek.					
Vale.	Butte.	2,765	25	+ 8.7	57	10	— 4	20†	41	0.27		0.26	3.5	2	20	18	3	nw.	U. S. Reclamation Service.					
Vermillion.	Clay.	1,222	12	+ 6.7	60	11	— 9	26	39	0.31	- 0.56	0.22	5.0	3	21	5	4	nw.	Prof. E. C. Perlbo.					
Waters Ranch.	Lawrence.	4,000	3								0.31		T.	2	19	3	9	s.	George Waters.					
Watertown.	Codington.	1,735	19	+ 25.4	+ 8.2	57	11†	— 10	25†	43	0.13	- 0.32	0.12	T.	1	19	4	8	s.	Robert Q. Wood.				
Wentworth.	Lake.	20	27.7	+ 9.6	57	11†	— 6	25	40	0.08	- 0.53	0.08	T.	1	16	14	14	n.	R. C. Zimmerman.					
White Lake.	Aurora.	1,646	1																Mrs. G. A. Rogers.					
Winner.	Tripp.	2,000	1	+ 28.7		60	10†	— 2	19†	39	0.74		0.62	T.	3	19	5	7	sw.	J. W. Barnum.				
Wood.	Mallette.		30.1		58	10†	— 4	25	42	0.98		0.49	1.2	4	19	5	7	sw.	Fred E. Kirch.					
Yankton.	Yankton.	1,234	39	+ 7.8	61	11	— 2	25	36	0.27	- 0.46	0.16	0.1	4	15	6	10	w.	U. S. Weather Bureau.					
Minnesota.																								
Pipestone.	Pipestone.	1,710	12	+ 28.0	+ 9.1	57	11	— 7	25	32	0.09	- 0.32	0.09	0	1	22	4	5	sw.	A. L. Doan.				
Colorado.																								
Arriba.	Lincoln.	5,243	7	22.4		46	4	— 4	20	29	5.39		8.20	22.8	7	17	5	9	nw.	C. A. Creel.				
Ansdhurst.	Teller.	8,500	3								3.92		1.68	54.5	10	16	9	6	sc.	Harry Dunnire.				
Boulder.	Boulder.	5,347	17	+ 26.8	- 7.9	50	10†	— 2	21	36	4.20	+ 3.49	1.47	52.5	7	6	20	5	w.	Prof. J. A. Hunter.				
Burlington.	Kit Carson.	4,160	10	+ 22.8	- 6.3	42	1†	— 1	21	24	3.83	+ 3.30	1.30	26.0	7	16	6	9	nw.	W. P. Davis.				
Cassells.	Park.	8,445	3								2.57		0.86	38.8	9	23	3	5	w.	Charles F. Deininger.				
Castle Rock.	Douglas.	6,220	21	+ 17.8	- 10.1	49	31	— 19	21	52	5.35	+ 4.56	2.00	43.5	10	16	9	6	ne.	Thos. F. Vaughan.				
Cheeseman.	Jefferson.	6,890	20	+ 24.0	- 6.5	51	30	— 6	22	45	4.82	+ 4.40	1.50	48.2	9	15	10	6	s.	Denver Union Water Co.				
Cheyenne Wells.	Cheyenne.	4,279	21	+ 25.0	- 4.8	50	7	— 2	30	41	2.72	+ 2.28	0.98	9.5	6	18	6	7	nw.	J. W. Adams.				
Denver.	Denver.	5,272	41	+ 23.2	- 9.0	51	31	— 1	21	37	5.21	+ 4.61	2.28	57.4	7	17	8	6	s.	U. S. Weather Bureau.				
Edgewater.	Jefferson.	5,450	5	+ 19.6		45†	31	— 9	21†	52†					17	ok	2†		w.	Dr. H. Schwatt.				
Estes Pk. Fish Hatch.	Larimer.	8,000	4								2.95		1.47	56.0	7	15	8	6	nw.	G. H. Thomson.				
Fort Collins.	do.	4,985	34	+ 16.9	- 12.0	41	15	— 13	22	42	4.08	+ 3.74	1.71	38.8	8	8	6	6	sw.	Colorado Ag. College.				
Fort Lupton (near).	Weld.	4,907	3								3.85		3.85	55.2	10	13	4	4	w.	C. B. Benedict.				
Fort Morgan.	Morgan.	4,319	15								5.90		3.94	65.0	6	20	6	6	sc.	Great Western Sugar Co.				
Frances.	Boulder.	9,300	8	+ 24.6		51	11†	— 3	20	31	7.08		4.17	+ 3.56	3.00	37.0	6	18	7	6	w.	C. W. Barry.		
Frys Ranch.	Larimer.	7,500	3	+ 21.0		44	7†	— 9	22	41	5.90		0.91		0.85	16.0	8	18	4	9	w.	Norman W. Fry.		
Georgetown.	Clear Creek.	8,550	11								4.23		6.60	32.1	55.0	6	23	3	5	nw.	H. I. Corbett.			
Greely.	Weld.	4,649	22	+ 17.8	- 9.9	47	7	— 14	26	51	4.74	+ 4.50	1.30	34.8	6	21	2	8	w.	Kenneth Shaw.				
Grover (near).	Park.	5,076	9	+ 19.6		40	11	— 11	25	38	3.15		0.91		0.50	21.8	6	13	4	14	nw.	D. M. Porter.		
Hartsel.	Phillips.	8,892	4								3.15		0.91		0.50	21.8	6	13	4	14	w.	Emily Kleinknecht.		
Hawthorne.	Clear Creek.	6,000	4								3.15		0.91		0.50	21.8	6	13	4	14	w.	B. E. Chesebro.		
Holyoke (near).	Clear Creek.	3,745	17	+ 19.8	- 8.2	45	1*	— 12	23†	44	2.99	+ 2.64	1.17	8.0	7	21	1	9	nw.	A. C. Cauble.				
Idaho Springs.	Sedgewick.	7,543	23	+ 22.8	- 5.8	44	15	— 2	23	42	4.92	+ 4.50	2.84	65.0	7	8	17	6	w.	J. J. Willis.				
Julesburg.	Sedgewick.	3,465									4.46		2.00	28.8	5	16	13	3	w.	Great Western Sugar Co. Do.				
Kersey.	Weld.	4,571									3.86		3.44	1.12	40.0	6	20	5	6	w.	P. A. Taft.			
La Porte.	Larimer.	5,053	22								3.86		3.44	1.12	40.0	6	20	5	6	w.	Charles Green.			
Le Roy (near).	Logan.	4,380	24								3.54		3.09	1.05	15.9	9	12	9	10	w.	Great Western Sugar Co.			
Longmont.	Boulder.	4,950	12	+ 16.6	- 10.5	53	30	— 14	20†	56	4.23	+ 3.87	2.45	29.8	8	15	2	5	ne.	Enos A. Mills.				
Longs Peak (near).	Larimer.	8,600	18	+ 19.5	- 5.0	55	11	— 12	21	53	5.89	+ 5.28	2.40	69.0	7	24	2	5	nw.	Great Western Sugar Co.				
Merino.	Logan.										4.46		1.03	10.0	7	16	6	10	nw.	Charles A. Chapman.				
Moraine.	Larimer.	7,775	23	+ 16.0	- 6.2	47*	14	— 20	21	55	4.70	+ 4.22	1.03	58.0	6	20	0	11	w.	Denver Union Water Co.				
Platte Canon.	Jefferson.	5,492	14								4.46		1.03	5.0	9	17	1	13	n.	Miss E. Cornelison.				
St. Cloud.	Larimer.	7,750	10								3.56	+ 3.01	1.36	45.0	4	20	5	6	w.	T. E. Bruce.				
Sedgewick.	Sedgewick.	3,539	5	+ 24.5		50	1	— 3	30	36	1.75		0.69		4	16	7	8	w.	City Engineer Boulder.				
Silver Lake.	Boulder.	10,500	3								3.14		4.82	+ 3.92	1.20	2.0	8	15	10	nw.	Frank W. Murphy.			
Spicer (near).	Jackson.	8,700	3								3.18		4.82	+ 4.10	2.22	4.0	6	14	7	nw.	Great Western Sugar Co.			
Sterling.	Logan.	3,892	4	+ 21.6		41	4	— 6	30	34	2.33		1.03	2.21	1.19	1.0	7	17	4	10	nw.	P. H. Boothroyd.		
Waterdale.	Larimer.	5,206	10								3.18		4.55	+ 4.04	1.89	2.22	6	17	4	10	nw.	J. C. Tuomey.		
Wray.	Yuma.	3,512	17	+ 26.8	- 8.1	46	1	— 3	30	33	3.73	+ 3.37	1.75		5	17	6	8	w.	Matthew Harr.				
Yuma.	do.	4,138	22								2.40	+ 1.95	1.05	4.5	6	20	5	6	nw.					
Nebraska.																								
Ainsworth.	Brown.	2,521	9	+ 28.8																				

TABLE 1.—*Climatological data for December, 1913. District No. 6—Continued.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Sky.								
Nebraska—Continued.																							
Cairo.	Hall.	1,051	5								5.62		2.00		7							Elliott Harrison.	
Callaway.	Custer.	2,555																				J. H. Evans.	
Cambridge.	Furnas.	2,258	7	28.7		53	3	-1	23	33	5.05		1.35	4.0	7	18	2	11				Chas. Jensen.	
Columbus.	Platte.	1,442																				A. L. Rush.	
Creta.	Saline.	1,368	31	32.0	+ 4.0	52	31	1	26†	29	4.90	+ 4.03	1.72	3.8	8	16	3	12				Doane College.	
Culbertson.	Hitchcock.	2,565	27	28.2		50	3†	2	23	36	3.74	+ 3.15	1.14	1.0	8	18	1	12				Homer L. Nye.	
Curly.	Sioux.		5								1.23		4.0									A. E. Hamm.	
Curts.	Frontier.	2,553	16	32.2	+ 3.3	60	15	4	22	44	6.03	+ 5.20	1.34	4.0	7	19	4	8				Dr. S. R. Razee.	
Dalton.	Cheyenne.	4,273																				J. C. Frandsen.	
David City.	Butler.	1,619	25	31.4	+ 4.5	50	3†	0	26	33	3.49	+ 2.54	1.24	4.5	8	18	4	9				S. Clingman.	
Du Bois.	Pawnee.	1,074	9								4.88		2.02	1.0	10	11	6	14				O. M. Backus.	
Dumas.	Garfield.	5	29.2			60	11	-1	26	42	2.11		0.60	1.0	5	21	3	7				Emile Raes.	
Elm Creek.	Buffalo.	2,268	6								5.60		1.55		7							E. L. Sutton.	
Elie.	Perkins.	3,882																				J. F. Brittain.	
Ericson (near).	Garfield.	2,029	22								3.66	+ 2.95	1.44		7	19	4	8				J. A. Bodyfield.	
Ewing.	Holt.	1,888	23	29.0		63	11	-2	21	41	1.15	+ 0.46	0.55	1.0	6							G. H. Benson.	
Exeter.	Fillmore.	1,607																				Frank Ainsworth.	
Fairbury.	Jefferson.	1,316	38	33.2	+ 4.3	55	12	3	26	28	4.20	+ 3.38	1.44	2.0	8	12	7	12				W. F. Cramb.	
Fairmont.	Fillmore.	1,641	21	30.6	+ 3.8	53	3	2	26	26	3.44	+ 2.62	1.06	3.0	9	12	8	11				C. B. & Q. R. R. Co.	
Falls City.	Richardson.	598	18	35.9	+ 6.3	58	1	2	26	29	4.10	+ 3.12	1.54	2.0	6	14	3	14				Dr. J. C. Yutzy.	
Fort Robinson.	Dawes.	3,764	31	21.3	- 5.9	58	31	-6	21	42						16	2	13				Post surgeon.	
Franklin.	Franklin.	1,820	23	30.0	+ 0.8	53	11†	1	25	34	4.41	+ 3.66	1.15	3.5	7	12	6	13				A. R. Peck.	
Fremont.	Dodge.	1,203	33	31.9	+ 6.1	54	12	5	26	31	2.29	+ 1.24	0.85	T.	6	19	3	9				Ernest Hahn.	
Fullerton.	Nance.	1,629	13	29.0		52	14	-3	21	32†	4.90	+ 3.70	2.52	2.0	6	19	4	8				Dr. F. W. Johnson.	
Geneva.	Fillmore.	1,633	24	32.4	+ 4.0	54	4	3	26	31	4.30	+ 3.37	1.66	2.1	9	12	9	10				F. M. Flory.	
Genco.	Nance.	1,684	38	30.6	+ 5.5	53	11	1	26†	29	4.17	+ 3.23	1.42	2.0	9	20	2	9				F. W. Parsons.	
Gordon.	Sheridan.	3,550																			G. F. Williams.		
Gosper.	Gosper.		12								4.51	+ 3.66	1.03	4.0	6	16	4	11				E. H. Stoll.	
Gothenburg.	Dawson.	2,557	20	29.4	+ 0.5	51	3	2	21	30	3.91	+ 3.26	1.40	2.0	8	22	3	13				S. S. Kaufman.	
Grand Island.	Hall.	1,860	23	31.0	+ 1.8	52	11†	4	21	26	5.00	+ 4.15	1.60	5.0	9	17	1	13				E. A. Barnes.	
Grant.	Perkins.	3,405	10	25.4	- 1.9	46	2	-1	23†	37	2.80	+ 1.97	1.44	2.0	5	20	1	10				Anson K. Holmes.	
Greely.	Greeley.	2,021	19								3.75	+ 2.90	1.60	0.1	7	17	6	8				W. E. Morgan.	
Guide Rock.	Webster.	1,846	14								4.75	+ 3.82	1.65	2.0	8	11	4	16				J. S. Marsh.	
Hager.	Dundy.	3,268																				J. L. Pember.	
Halsey.	Thomas.	2,665	11	28.8	+ 0.9	59	11	-2	21	40	1.99	+ 1.19	1.03	1.5	8	22	1	8				Bureau of Forestry.	
Hartington.	Cedar.	1,309	23	30.0	+ 6.1	58	14	-1	26	35	0.37	- 0.55	0.13	1.0	6	14	9	10				D. E. Ewing.	
Hastings.	Adams.	1,932	24	30.8	+ 3.5	54	3	3	26	26	4.93	+ 4.11	1.53	3.5	8	19	1	11				C. B. & Q. R. R. Co.	
Hayes Center.	Hayes.	2,020	29	29.3		48	2	-3	23†	36	6.18	+ 5.31	2.20	12.0	6	19	3	10				Jos. M. Crosby.	
Hay Springs.	Sheridan.	3,821	26	22.0	- 2.8	41	10	-3	22	32	1.75	+ 0.99	0.50	8.0	5	16	7	8				A. Kadlecok.	
Hebron.	Thayer.	1,458	28	32.1	+ 2.5	53	3	3	26†	26	4.28	+ 3.51	1.62	2.0	9	18	6	10				Dr. C. M. Easton.	
Hemingford.	Boxbutte.	4,256	5								1.07		0.58		5							A. S. Enyeart.	
Hendley.	Furnas.	2,231	10								4.75	+ 3.72	1.33	6.0	6	16	2	13				T. L. Jones.	
Hershey.	Lincoln.	2,902	3								3.10		0.85	6.5	7	16	2	13				G. F. Palmer.	
Hillside.	McPherson.	3,484	5	28.6		51	12	-2	21	42	3.38		2.29	4.8	7	16	5	10				Mrs. M. R. Lloyd.	
Holdrege.	Phelps.	2,324	23	30.8	+ 1.7	52	10†	-2	26	27	4.19	+ 3.49	1.15	3.0	8	15	6	10				C. B. & Q. R. R. Co.	
Hooper.	Dodge.	1,228	16	29.6	+ 4.7	55	11†	-2	27	35	1.55	+ 0.72	0.61		7	16	1	14				Dr. W. H. Heine.	
Hull (near).	Banner.		5								2.63		1.60		5		21	2	3				Mrs. W. P. Miller.
Imperial.	Chase.	3,278	25	25.9	- 2.7	46	4	0	23	29	3.82	+ 3.12	2.10		8	15	8	12				Robt. Malcolm.	
Kearney.	Buffalo.	2,146	25	30.4	+ 1.8	54	14	-1	26†	28	4.02	+ 3.98	1.55	4.0	8	18	3	10				City Engineer.	
Kimball.	Kimball.	4,397	25	20.5	- 9.0	44	31	-5	25	35	2.53	+ 1.91	1.00	15.5	6	21	4	6				F. J. Bellows.	
Kirkwood.	Rock.	19	29.8	+ 4.7	62	11	0	28	42†	0.54	- 0.13	0.30	T.	4	18	6	7				Mrs. C. Arter.		
Kowanda.	Garden.	5									1.87		1.23		7							Geo. W. Hulse.	
Lexington.	Dawson.	2,385	25	30.4	+ 2.0	51	11†	1	21	30	3.93	+ 3.16	1.31		8	22	0	9				Robt. Chadwick.	
Lincoln.	Lancaster.	1,189	33	33.5	+ 6.6	54	3	6	26	25	4.03	+ 3.36	1.84	1.1	9	16	4	11				U. S. Weather Bureau.	
Lodgepole.	Cheyenne.	3,820	15	22.2	- 5.4	43	1	-3	25	33	2.28	+ 1.66	0.60	15.0	6	18	7	12				Harriet Hayhurst.	
Loup City.	Sherman.	2,067	19	28.1	+ 1.6	54	11	-8	21	44	5.54	+ 4.80	1.80	3.0	8	24	1	6				Jas. H. Bailey.	
Loyal.	Custer.	16									0.26	- 0.20	0.12	1.0	4	18	7	6				Anton Bastia.	
Lynch.	Boyd.	16									0.26	- 0.20	0.12	1.0	4	18	7	6				E. J. Brady.	
McCook.	Red Willow.	2,506	19	28.3	- 0.3	50	3	2	23	31	3.19	+ 2.62	0.90	2.0	9	20	4	7				L. L. Slagel.	
McCool Junction.	York.	1,575	16								4.86	+ 3.85	2.13	4.0	7							Dr. F. A. Long.	
Madison.	Madison.	1,585	22	28.8	+ 3.6	55	17	-3	21†	30	2.26	+ 1.84	0.91	2.0	6	19	4	8				John Ellis.	
Marquette.	Hamilton.	1,830	34	3							4.34	+ 3.57	1.58	4.5	8							G. C. Stuft.	
Mary.	Brown.										2.13		0.80	T.	7	17	5	9				J. A. Amsbury.	
Mason City.	Custer.	2,257	14								5.65	+ 4.61	1.60		6							A. Kennedy.	
Minatare.	Scotts Bluff.	3,825	4								1.71		0.50	2.0	7	20	6	5				Joel Hull.	
Minden.	Kearney.	2,169	36	31.0	+ 3.0	51	3†	3	26	25	5.04	+ 4.22	1.45	2.8	11	12							

TABLE 1.—Climatological data for December, 1913. District No. 6—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelting.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.			
Nebraska—Continued.																					
Springview.	Keyapaha.																	C. L. Phelps.			
Stanton.	Stanton.	1,472	22	20.6	+ 5.1	55	11	—	3	26	36	1.85	+ 0.94	1.20	2.0	3	19	4	8	sw.	
Stapleton.	Logan.	1	28.2	54	1†	—	1	23	40	2.62	3.40	+ 2.80	1.18	3.0	6	2.7	6	10	1	F. E. Peterson.	
Stratton.	Hitchcock.	2,804	16	—	—	—	—	—	—	—	4.05	+ 3.37	1.20	2.0	7	—	—	—	—	Miss Stella Vennum.	
Superior.	Nuckolls.	1,574	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	F. V. Bishop.		
Syracuse.	Otoe.	1,059	21	32.8	+ 5.6	56	12	—	6	21	34	4.14	+ 2.87	1.58	6.0	8	15	4	12	sw.	
Table Rock.	Pawnee.	1,023	25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	E. D. Howe.		
Tecumseh.	Johnson.	1,113	33	33.8	+ 4.2	55	14	—	1	26	34 ^b	3.75	+ 2.80	1.40	1.4	7	—	—	—	Dr. C. H. Davies.	
Tekamah.	Burt.	1,080	22	31.3	+ 5.1	54	11†	3	26	33	1.48	+ 0.39	1.03	0.5	6	18	3	10	Dr. A. D. Nesbit.		
University Farm.	Lancaster.	24	33.1	+ 4.3	54	12†	2	26	43	0.03	+ 3.08	1.50	1.1	8	15	5	11	S. W. Perin.			
Upland.	Franklin.	2,158	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	U. S. Weather Bureau.		
Valentine.	Cherry.	2,613	25	32.3	+ 4.8	57	10	2	21	38	0.88	+ 0.26	0.41	0.7	6	16	6	9	W. T. Mauck.		
Wahoo.	Saunders.	1,187	11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	I. H. Weaver.		
Wakefield.	Dixon.	1,387	20	30.2	+ 6.3	56	11	0	26	36	4.10	+ 2.91	1.72	—	—	6	21	0	10	G. A. Dudley.	
Walhill.	Thurston.	10	30.1	52	11	1	26	31	1.49	+ 0.66	0.99	1.1	—	5	19	3	9	R. E. Swift.			
Watertown.	Buffalo.	2,260	8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	C. D. Fuller.		
Wauneta.	Chase.	2,935	14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	S. W. Orton.		
Weeping Water.	Cass.	1,080	36	32.4	+ 6.7	57	3†	—	2	26	35	3.98	+ 2.95	1.64	1.0	7	15	5	11	J. C. Elliott.	
Westpoint.	Cuming.	1,813	28	32.4	+ 6.7	54	11†	4	26	32	1.81	+ 0.90	1.28	—	—	4	—	—	F. C. Evans.		
Wesner.	do.	1,380	17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	A. T. Gauque.		
York.	York.	1,633	24	32.1	+ 3.8	53	17	0	26†	33	4.46	+ 3.80	1.77	4.0	9	17	5	9	—		
Iowa.																					
Afton.	Union.	1,212	19	33.2	+ 7.5	55	2	2	23	27	2.27	+ 1.03	1.30	2.0	5	13	6	12	sw.		
Allerton.	Wayne.	11	34.5	+ 8.0	56	1†	1	21	28	1.95	+ 0.78	0.79	3.8	9	11	2	18	n.			
Alton.	Sioux.	1,305	8	27.6	—	55	11	—	3	21	38	0.07	—	0.04	T.	2	21	1	9	sw.	
Atlantic.	Cass.	1,164	22	32.6	+ 7.7	53	4	5	22	27	1.53	+ 0.38	0.93	0.8	8	12	4	15	Thos. H. Whitney.		
Audubon.	Audubon.	1,301	19	30.4	+ 6.5	58	1	24	24	1.54	+ 0.58	1.20	0.5	6	16	3	12	Geo. E. Kellogg.			
Bedford.	Taylor.	13	33.0	+ 7.8	55	1	—	13	21	21	2.33	+ 1.39	1.05	7.6	7	11	4	16	E. E. Healy.		
Centerville.	Appanoose.	1,013	3	34.2	—	59	3	2	21†	27	2.20	—	1.08	6.5	6	18	7	6	Gordon Peacock, Jr.		
Chariton.	Lucas.	1,042	18	32.8	+ 6.5	56	1	1	21	21	1.29	—	0.65	0.85	1.0	3	12	3	16	C. C. Burr.	
Clarinda.	Page.	1,000	23	31.2	+ 4.6	56	2	—	4	21†	38	4.73	+ 3.61	1.37	7.5	8	15	1	15	A. S. Van Sandt.	
Corning.	Adams.	1,117	21	31.6	+ 4.5	55	2	—	8	21†	33	4.70	+ 3.56	1.63	5.0	7	17	2	12	Jerome Smith.	
Corydon.	Wayne.	1,101	20	34.2	+ 7.5	59	3	2	21	27	2.24	+ 0.82	0.90	2.3	9	8	5	18	May C. Miller.		
Council Bluffs.	Pottawattamie.	990	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	B. W. Crossley.		
Creston.	Union.	1,312	8	31.3	—	59	3	—	1	21	30	3.14	—	1.30	2.0	8	—	—	ne.		
Cumberland.	Cass.	14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	sw.		
Denison.	Crawford.	1,180	19	31.8	+ 8.3	54	11	2	26	30	1.98	+ 0.49	0.94	4	16	2	13	W. C. Van Ness.			
Elliott.	Montgomery.	8	32.3	—	55	2	3	21†	30	2.40	—	0.03	0	5	—	—	—	ne.			
Greenfield.	Adair.	21	32.6	+ 7.6	55	12†	5	21	29	1.70	+ 0.45	1.00	2.5	8	15	7	9	sw.			
Harrow.	Sherby.	1,182	14	31.1	+ 7.1	52	2†	3	21†	28	1.82	+ 0.92	1.23	T.	6	14	8	9	Frank A. Ward.		
Inwood.	Lyon.	1,474	9	28.3	—	60	11	—	3	25†	34	0.12	—	0.06	0	3	22	1	8	C. A. Reynolds.	
Lake Park.	Dickinson.	1,479	29.2	—	59	11	—	3	25	35	0.00	—	0.00	0	0	21	3	7	F. B. Hanson.		
Lamoni.	Decatur.	1,120	6	34.5	—	57	1†	1	21	38	3.39	—	1.36	4.5	6	16	0	15	A. E. Woodruff.		
Le Mars.	Plymouth.	1,224	17	29.5	+ 5.8	53	11	—	3	26	32	0.15	—	0.67	0.07	0	3	21	1	9	T. J. Fitzpatrick.
Lenox.	Taylor.	1,250	18	32.4	+ 7.1	55	1†	2	21	25	2.39	+ 1.32	1.05	4.0	5	15	1	15	G. A. C. Clarke.		
Leon.	Decatur.	1,120	11	32.6	+ 6.0	65	2	—	2	21	24	2.59	+ 1.32	0.98	2.0	8	10	2	19	J. L. Hurley.	
Little Sioux.	Harrison.	8	32.6	—	55	11	—	3	26	34	1.35	—	1.05	0.5	6	17	3	11	Morris Gardner.		
Logan.	do.	928	46	33.3	+ 8.1	56	11	—	21†	35	1.56	+ 0.29	1.05	T.	6	16	4	8	Geo. H. Gibson.		
Mount Ayr.	Ringgold.	1,236	20	33.6	+ 7.7	55	1†	2	21	35	2.44	+ 1.15	1.27	5.0	6	11	3	17	Glenn H. Stern.		
Murray.	Clarke.	1,216	22	33.6	+ 7.4	56	4	3	21	26	1.91	+ 0.85	0.77	2.0	7	12	8	11	Alex. Maxwell.		
Northboro.	Page.	1,046	1	33.4	—	55	1†	0	21†	26	3.54	—	1.20	6.5	6	15	2	14	M. T. Ashley.		
Odeboit.	Sec.	1,356	16	31.6	+ 8.1	55	11	5	25	28	0.56	—	0.28	0	2	20	2	9	E. Starmer.		
Onawa.	Monona.	1,051	13	33.2	+ 7.0	55	11	5	25	28	1.83	+ 0.72	1.05	T.	6	16	—	—	C. G. Perkins.		
Pacific Junction.	Mills.	960	14	32.0	+ 5.7	55	2	—	26	32	3.15	+ 2.33	1.33	2.8	6	17	4	10	H. H. McCaffrey.		
Rock Rapids.	Lyon.	1,358	21	25.1	+ 4.0	56	12	—	1	21†	40	0.00	—	0.59	0	0	20	5	6	w.	
Rocky.	Osceola.	1,212	20	28.6	+ 9.0	59	11	—	2	25	37	0.03	—	0.75	T.	2	21	2	11	W. C. Wyckoff.	
Sibley.	Cloud.	1,398	26	35.0	+ 5.3	54	3	8	26	34	3.91	+ 3.43	2.09	2.1	10	9	8	14	H. G. Doolittle.		
Sioux Center.	Norton.	2,200	4	32.4	—	59	16	5	26	34	5.18	—	1.42	0.5	8	19	1	11	J. de Ruyter.		
Sioux City.	Dresden.	2,731	19	30.2	- 0.6	50	12	7	27	35	4.46	+ 3.86	1.80	3.0	7	13	6	12	U. S. Weather Bureau.		
Spencer.	Ellsworth.	1,637	9	34.9	—	58	3†	4	27	32	4.12	—	1.75	3.5	9	11	8	12	S. Gillespie.		
Thurman.	Fremont.	16	31.4	+ 5.9	54	3	8	21	37	3.88	+ 2.44	1.68	—	0.08	0	5	13	5	13	C. R. Paul.	
Washta.	Cherokee.	1,157	15	29.2	+ 5.3	56	11	—	4	26	40	0.26	—	0.60	0.20	T.	2	20	3	8	H. L. Felter.
Kansas.																					
Abilene.	Dickinson.	1,157	18	—	—	57	15	—	—	30	3.16	+ 2.27	1.68	6.9	8	—	—	—	C. L. Brown.		
Agricultural College.	Riley.	1,100	55	35.6	+ 4.8	57	13†	7	26	37	3.84	+ 2.99	1.20	2.5	10	10	1	20	Prof. J. O. Hamilton.		
Alton.	Osborne.	1,861	11	34.4	+ 3.7	53	3†	7	26	31	2.55	+ 1.94	0.70	1.0	8	13	6	12	H. A. Storer.		
Atchison.	Atchison.	973	22	36.4	+ 4.8	61	1	8	26	30	3.54	+ 2.18	—	1.0	6	12	5				

TABLE 1.—Climatological data for December, 1913. District No. 6—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.				Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unadjusted.							
Kansas—Continued.																				
Hoxie.	Sheridan.	2,700	14	31.4	+ 0.8	58	11†	9	21†	38	4.26	+ 3.74	1.91	0.5	8	11	9	11	n.	I. L. Vinson.
Lawrence.	Douglas.	907	45	36.8	+ 5.4	60	1	10	26	24	3.27	+ 1.87	1.08	3.9	7	6	6	19	w.	F. E. Kester.
Leavenworth.	Leavenworth.	913	69	37.3	+ 6.1	60	1	10	26	28	3.75	+ 2.38	1.80	2.0	9	13	2	16	e.	Dr. A. F. Yohe.
Lebanon.	Smith.	1,812	15	31.8	+ 3.4	52	4	7	26†	25	4.86	+ 4.28	1.52	1.0	7	15	4	12	n.	E. V. Bower.
Lenora.	Norton.	2,300																	J. S. Goodrich.	
Leoti.	Wichita.	3,300	10	28.6		47	4	7	21	25	2.70								s.	R. W. Greene.
Lincoln.	Lincoln.	1,374	1	34.8		55	3†	4	26	32	4.06								sw.	A. J. Fredrickson.
Lindsborg.	McPherson.	1,333	7								2.69									E. D. Floyd.
McCracken.	Rush.	2,139	1	34.2		57	4	6	26	32	4.24									C. P. Blachly.
Manhattan.	Riley.	1,014	21	36.3	+ 4.9	59	13	7	26	30	3.00	+ 2.15	1.22	2.6	12	11	1	19	s.	J. L. Steele.
Minneapolis.	Ottawa.	1,259	23	35.0	+ 3.7	55	4	7	26	27	3.64	+ 2.98	2.07	1.5	10	14	3	14	sw.	C. J. Norton.
Moran.	Allen.	1,098	17	38.4	+ 4.4	53	1†	9	26	29	3.54	+ 1.83	1.92	4.0	5	9	3	19	ne.	Guy Gamber.
Natoma.	Osborne.	1,834	4																	Sim Stefel.
Norton.	Norton.	2,284	15	30.7	+ 0.7	54	11	3	26	30	4.85	+ 4.35	0.91	8.0	10	13	9	9	nw.	I. K. Huber.
Oberlin.	Decatur.	2,539	26	28.5		52 ^b	3	-1	23	34	5.49	+ 4.88	1.52	11.0	8	16	8	7	sw.	J. A. Church.
Oketo.	Marshall.	1,194	5	34.6		55	3†	5	26	30	3.76									Dr. S. B. S. Wilson.
Olathe.	Johnson.	1,032	18	35.7	+ 3.8	50	1	10	21†	26	3.55	+ 1.96	1.84	4.0	9	9	4	18	sw.	Ralph Snyder.
Oakaloosa.	Franklin.	926	19	36.6	+ 4.1	57	3†	8	26	29	4.07									W. J. Sheldon.
Ottawa.	Phillips.	1,939	22	32.8	+ 2.3	52	14	2	26	28	5.29	+ 4.62	1.15	5.5	8	10	4	17		N. E. Bailey.
Plainville.	Rooks.	2,156	7																	Chas. Lambert.
Pleasanton.	Linn.	862	11	38.0	+ 4.1	60	1	11	21	26	3.24	+ 1.75	1.70	4.5	8	9	2	20	nw.	B. F. Blaker.
Quenemo.	Osage.	941	1	37.2		69	1†	2	26	30	4.11									R. L. Graham.
Republic.	Republic.	1,495	10	34.6		58	10	5	21†	29	4.05									J. W. Ambrose.
Russell.	Russell.	1,834	14	34.0	+ 2.7	54	3†	5	26	30	2.78	+ 2.23	1.02	3.0	8	14	2	15	sw.	Robert Brebner.
Russell Springs.	Logan.	3		30.8		54	10	9	21	34	3.81									D. J. Hutto.
St. Francis.	Cheyenne.	3,288	5	24.6		50	1	0	21†	32	3.12									J. E. Uplinger.
Salina.	Salina.	1,227	29	33.8	+ 1.9	55	12	3	28	27	3.92	+ 3.12	1.80	4.0	10	12	4	15	s.	Prof. A. W. Jones.
Scott.	Scott.	2,971	7	33.1		54	11	12	25	32	2.98									J. B. Longhnan.
Smith Center.	Smith.	1,800	3	34.2		54	3	8	21†	27	4.69									W. H. Nelson.
Topaka.	Shawnee.	997	27	36.0	+ 4.9	56	1	9	26	29	3.56	+ 2.68	1.90	4.3	12	9	3	19		U. S. Weather Bureau.
Tribune.	Greely.	3,612	14	26.2		46	4	5	25†	25	2.08	+ 1.77	0.66	3.8	7	17	5	9	nw.	Charles E. Cassel.
Valley Falls.	Jefferson.	913	14	34.7	+ 3.1	58	1	3	26	29	4.56	+ 3.72	2.01	2.9	12	12	4	15	sw.	Miss Nettie Maxwell.
Vinland.	Douglas.	880	4																	A. Schick.
Wakeeney.	Trego.	2,456	30	33.5	+ 2.2	55	11	7	26	29	5.22	+ 4.65	2.68	3.0	11	15	1	15	n.	A. S. Peacock.
Wallace.	Wallace.	3,303	27	34.2	- 2.7	46	5	6	21	26	2.29	+ 1.85	0.72	4.0	7	16	7	8	sw.	J. L. Page.
Waimego.	Pottawatomie.	1,002	20	36.4		60	13	7	26	29	2.79	+ 1.91	1.80	2.7	11	10	3	18	sw.	M. L. Stone.
Missouri.																				
Amoret.	Bates.	850	5	38.6		60	1	8	25	30	2.96									Darby Fruit Farm.
Appleton City.	St. Clair.	853	24	36.0	+ 1.5	60	1	20	4†	28	3.20	+ 1.38	1.60	3.5	6	7	5	14	nw.	Mark Brown.
Arlington.	Phelps.	695	11								1.38	- 0.13	0.55	10.0	9	9	1	21	sw.	G. V. Randolph.
Arthur.	Vernon.	767																		Mrs. J. T. Armstrong.
Avalon.	Livingston.	28	37.2	+ 6.8	62	1	13	21	26	2.62	+ 0.85	1.37	3.5	7	8	4	19	sw.	F. G. Ashbaugh.	
Bethany.	Harrison.	881																	W. H. Skinner.	
Bolivar.	Polk.	1,070	26	40.2	+ 4.3	61	4	20	9	32	2.69	+ 0.22	1.37	6.2	8	6	7	18	se.	T. H. B. Dunegan.
Boonville.	Cooper.	600	37								2.11	- 0.05	0.70	6.5	8	11	0	20	se.	C. Rondecker.
Brunswick.	Charlton.	632	36	37.0	+ 5.0	58	1†	15	21	29	2.36	+ 0.64	1.08	4.0	7	8	0	23	w.	Louis Benecke.
Clinton.	Henry.	800	27	39.2		61	1	20	21	30	2.54	+ 0.68	1.60	4.0	6	9	3	19	w.	A. E. Derwent, M. D.
Columbia.	Boone.	754	25	37.8	+ 4.9	61	2	20	8	28	1.74	- 0.27	0.72	8.0	8	8	2	21	e.	U. S. Weather Bureau.
Conception.	Nodaway.	982	29	34.8	+ 5.0	55	1†	4	26	25	2.00	+ 0.92	0.80	2.0	5	11	3	13	nw.	Fr. Adhelm Hess.
Crocker.	Pulaski.	1,300	3	42.8		62	5†	20	8	29	2.21									Roy W. Reed.
Duncan.	Webster.	1	33.0			58	1	17	9	31	2.26									C. A. Mingus.
Eldon.	Miller.	924	2	38.6		60	3	19	8	28	2.43									Charles A. Kellogg.
Fayette.	Howard.	725	31	35.6	+ 3.3	59	3	15	21	27	1.95	+ 0.17	0.80	7.0	5	11	1	19	se.	Prof. T. B. Smith.
Fulton.	Howard.	818	21	36.4	+ 3.5	61	2	18	9	37	1.49	- 0.76	0.72	5.5	6	9	3	19	se.	Russell Johnston.
Glasgow.	Howard.	618	37								2.22	+ 0.33	0.96	7.0	7	12	2	17	e.	J. J. Shaughnessy.
Grant City.	Worth.	1,120	22	34.6	+ 6.0	56	1†	3	21†	26	2.87	+ 1.63	1.02	3.0	6	10	6	20*	nw.	W. H. Campbell.
Harrisonville.	Cass.	912	41	36.6	+ 5.4	59	1	15	22	26	3.47	+ 1.59	1.66	4.0	10	7	1	23	sw.	A. J. Sharp.
Hermann.	Gasconade.	482	40								1.12	- 0.79	0.36	3.0	10	6	2	23	s.	C. T. Mausund.
Houston.	Texas.	1,280	22	38.6	+ 3.6	66	4†	15	9	42	1.42	- 0.70	0.60	4.2	4	11	7	13	n.	J. W. Logue.
Jefferson City.	Cole.	628	31	36.0	+ 2.8	68	3	16	9	33	2.40	+ 0.46	0.80	10.0	5	12	0	19		Miss Emma Swift.
Kansas City.	Jackson.	968	26	37.8	+ 6.3	57	1	15	21	23	3.35	+ 1.98	1.72	4.0	12	8	2	21	sw.	U. S. Weather Bureau.
Keytesville.	Chariton.	1									1.88									J. T. Dewey, M. D.
Kidder.	Caldwell.	1,017	23	36.5	+ 7.1	55	1†	12	26	24	2.24	+ 0.77	0.80	2.0	5	11	0	20	sw.	J. F. Sharp.
Lamont.	Pettis.	863	28	38.3		58	1†	20	8†	28	3.00	+ 1.16	1.45	5.5	7	4	10	17	s.	J. Ed. Hall.
Lebanon.	Laclede.	1,265	25	38.0	+ 2.6	57	2†	18	9	30	1.95	- 0.81	0.90	7.0	4	6	9	16	e.	M. W. Keir.
Lexington.	Lafayette.	813	32	37.5	+ 6.2	62	1	13	21	25	3.43	+ 1.56	1.45	2.7	9	11	2	20	s.	J. W. Keirley.
Liberty.	City.	894	26	37.8	+ 6.2	62	1	12	21	27	3.51	+ 2.08	1.65	1.1	8	7	6	17	sw.	W. C. Wilmett.
Lockwood.	Dade.	1,088	18	39.6		62	3	21	26†	24	2.54	+ 0.84	1.30</							

TABLE 2.—Daily precipitation for December, 1913. District No. 6, Missouri Valley.

Stations.	Watershed.	Day of month.																														Total.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
<i>Wyoming.</i>																																		
Arapahoe.	Bighorn.	*	*	*	.50																													0.85
Basin.	do.	.17																																0.17
Big Creek Station.	North Platte	T.	.07	.04																														0.11
Boyd.	Cheyenne	.50	.20	.40	.50	.40																											2.20	
Burns.	South Platte	.20	.23	T.	.62																												1.10	
Casper.	North Platte	.25	.25	.01	.30	1.35																										2.94		
Cantannah.	do.	.48	.37	.10	.70	.32																										2.00		
Cheyenne.	South Platte	.19	.57	.37	.10	1.04																										2.54		
Chugwater.	North Platte	T.																															T.	
Clark.	Yellowstone																																T.	0.10
Cody.	Bighorn.	T.																																T.
Crandall Creek.	Yellowstone																																	
Dome Lake.	Tongue	1.00	.30																															1.60
Douglas.	North Platte	.12	.33	.06	.06	.55																											1.20	
Dubois.	Bighorn.	.04		.04																														.04
Eatons Ranch.	Tongue	.20																																0.16
Echeta.	Powder	.10																																0.40
Elk Mountain.	North Platte	*	.18		*	.55																											0.10	
Encampment.	do.	.02	.03		.13	.07																											(*) .25	
Ervay.	Powder																																	.07
Fort Laramie.	North Platte	*	.63	T.	T.	.10																											.30	
Foxpark.	do.																																	1.50
Germania.	Bighorn.	.08																																
Gillette.	Powder																																	0.17
Horse Creek.	Bighorn.																																	
Hunters Station.	Powder	.08	.11																															0.19
Hyattville.	Bighorn.																																	
Jireh.	Niobrara.																																	
Kinnear.	Bighorn.																																	
Kirkley.	Niobrara.	.48	.19		.80																													
Kirwin.	Bighorn.																																	1.47
Knowles.	Cheyenne	.22																																
Lagrange.	North Platte	.53	.61	.26	.25	.66	.10																										0.40	
Lender.	Bighorn.	.41	.18																														2.59	
Laramie.	North Platte	.40	T.		.17	1.11																										1.05		
Leo.	do.																																1.90	
Lolabams Ranch.	Yellowstone	.06																																
Lovell.	Bighorn.																																	0.05
Lusk.	Niobrara.	.55	.09																															0.64
Manville.	do.	.30	.40	.20		.30																											1.35	
Moocroft.	Cheyenne	.10																																
Moore.	North Platte	.11	.72	.10	.37	.38																											0.13	
Newcastle.	Cheyenne	.05	T.																														1.72	
Pathfinder.	North Platte	.20	.47	T.		.23																											0.10	
Pinebluff.	South Platte	.13	.02	.20		.48	.40																									0.97		
Pine Ridge.	Cheyenne	.25																															3.25	
Powell.	Bighorn																																	
Rawlins.	North Platte	.12	.18		.06	.14																											0.12	
Rock River.	do.	.33	.05	.55																														
Rockypoint.	Powder		.12	T.																													1.94	
Saratoga.	North Platte																																	
Seven-Mile Creek.	do.																																	0.57
Sheridan.	Tongue	.06																																
Shoshone Dam.	Bighorn	.32																																0.12
South Pass City.	North Platte	.06	.07	T.	T.	T.																											0.34	
Sundance.	Cheyenne																																	
Thermopolis.	Bighorn	.27	.03																															0.49
Ulm.	Tongue	T.																																
Upton.	Cheyenne	*	.15																															0.19
Verona.	Tongue																																	
Wheatland.	North Platte	*	1.76	.20	*	2.10																											0.04	
Wants Ranch.	do.	T.				.40				</																								

TABLE 2.—*Daily precipitation for December, 1913. District No. 6—Continued.*

*Dates on which precipitation fall not entered.

TABLE 2.—*Daily precipitation for December, 1913. District No. 6—Continued.*

Stations.	Watershed.	Day of month.																														Total.			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
<i>South Dakota.</i>																																			
Aberdeen ||	James.	T.	.03	T.	T.																														0.03
Academy.	Missouri.	.03	.12	.07	T.																													0.23	
Alexandria.	James.	.06																																0.06	
Ardmore.	Cheyenne.	.02	.18	.29		.43																											0.92		
Armour.	Missouri.																																	0.24	
Belle Fourche.	Cheyenne.	.22																																0.60	
Blunt.	Missouri.	.45	.17	T.																													0.09		
Britton.	James.	.09																																0.08	
Brookings.	Big Sioux.	.03																																0.04	
Bryant.	Lt. Missouri.	.03																																0.15	
Camp Crook.	Canton.	.03																																0.10	
Castlewood.	Big Sioux.	.15																																0.18	
Centerville.	Missouri.	.04	.06	.02	.03	.03																											0.12		
Chamberlain.																																		0.38	
Clark.	James.	.12	.04																															0.16	
Cottonwood.	Missouri.	.11	.24	.03																														0.32	
Custer.	Cheyenne.																																	0.12	
Daviston.	Owl.	.10																																0.32	
Deadwood.	Cheyenne.	.10	.15																															0.42	
Deerfield.		.01	.27	.14																														0.60	
De Smet.	James.																																	0.38	
Dowling.	Cheyenne.	.20	.40	T.																													0.60		
Dumont.		.04	.23	.06																													0.38		
Eales.	Missouri.	.34	.29	T.																													0.67		
Erik Mountain.	Cheyenne.	.19	.06																														0.40		
Elmwood.	Grand.	.06																															0.06		
Eureka.	Missouri.	.43	.09																														0.52		
Fairfax.		.13	.12	.20	.05	T.																											0.50		
Faith.	Cheyenne.	.37	.47	T.	.01																												0.85		
Faulkton.	James.	.20	.15																														0.35		
Forestburg.		.05	.03	.08																													0.16		
Fort Meade.	Cheyenne.																																	0.30	
Goldfield.		.19	.05																														0.26		
Greenmont.		.09	.10																														0.36		
Greenwood.	Missouri.																																0.22		
Hardingrove.	Cheyenne.	.16	.41																														0.57		
Hardy Ranger Sta.																																		0.20	
Harvey's Ranch.																																		0.24	
Hermosa.																																		0.28	
Highmore.	Missouri.	.15	.08	.04	.01																												0.32		
Hopewell.	Cheyenne.	.10	.15	.05																													0.71		
Hot Springs.																																		0.10	
Howard.	Missouri.	.06	.04																														0.08		
Howell.	James.	.03	.04	.01	T.																												T. 0.05		
Huron.		.05	T.	T.																													0.09		
Ipswich.	White.	.03																															0.39		
Kadoka.	White.	.11	.25	.01																													1.10		
Kanabec.	Missouri.	.60	.30	.15																													0.06		
Kimball.		.05																															0.28		
La Delle.	James.	.28																															T. 0.26		
Lead.	Cheyenne.	.02	.20																														0.42		
Lemmon.	Grand.	.20																															0.20		
Marion.	Missouri.	.12	.11	T.	.03																											0.36			
Marston.		.28	.23	.06																													0.56		
Meadow.	Grand.																																0.23		
Mellette.	James.	.04	.01																														0.10		
Menn.		.53	.10		T.	T.																										0.63			
Milbank ||	Minnesota.	T.	.11	T.	T.																											0.11			
Mitchell ||	James.																																T.		
Mobridge.	Missouri.																																		
Murdo.	White.	.50	.50																														1.00		
Oelrichs.	Cheyenne.	.15	.30	.40																													0.95		
Omaha.		.35	.05	.15	.16	T.																										0.71			
Orida.	Missouri.	.25	.25	T.																															

TABLE 2.—*Daily precipitation for December, 1913. District No. 6—Continued.*

Stations.	Watershed.	Day of month.																														Total.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
<i>Colorado.</i>																																		
Arriba.	Republican.	.12	.56	.77	.55	3.20																												5.38
Auldhurst.	South Platte.	.18	.43	.16	1.68	.70	.40																										3.93	
Bennet (near)	do.																																	
Boulder.	do.	.30	.31	.04	1.42	1.47																											4.30	
Burlington.	Republican.	.10	.27	.41	.50	1.30	1.05																										3.83	
Cassells.	South Platte.	.10	.20	.10	.80	.88	.12																										2.57	
Castle Rock.	do.	.43	.27	.36	2.00	.88	.62																									5.35		
Cheeseman.	do.	.29	.39	.15	1.50	1.25	.90																									4.82		
Cheyenne Wells.	Smoky Hill.	T.	.26	.38	.60	.35	.98																									2.72		
Denver.	South Platte.	.54	.18	.02	2.12	1.32																										6.21		
Edgewater.	do.																																	
Eates Park Fish Hatchery.	do.	.25	.21	.15	.72	1.47																											2.95	
Fort Collins.	do.	.04	1.71	.13	1.32	.64																										4.08		
Fort Lupton (near).	do.	.37	.33	.20	1.34	1.32	.06																									3.85		
Fort Morgan.	do.																																	
Frances.	do.	.30	.27	.10	1.95	3.85																										7.08		
Fry's Ranch.	do.	.25	.43	T.	.94	3.94																										5.90		
Georgetown [I]	do.	.39	.06	.30	3.00	.39																										4.17		
Greeley.	do.	1.30	.87	.56	1.20	.83																										4.79		
Groves (near).	do.	.20	.75	.40	.85	.50	.10																									3.15		
Hartsel.	do.	.14	.05	.15	.50																											0.91		
Hawthorne.	do.	.41	.34	T.	1.90	3.31																									6.60			
Holyoke (near).	Republican.	.07	.25	.60	.23	1.17	.40																								2.99			
Idaho Springs.	South Platte.	.29	.21	1.05	1.25	2.84	.21																								4.92			
Julesburg.	do.																																	
Kenney.	do.	2.00	.30	1.50	.32	.34																										4.46		
La Porte.	do.	.65	.35	.10	.87	1.12																										3.86		
Le Roy (near).	Republican.	.17	.40	.75	1.06	.82																										3.54		
Longmont [I]	South Platte.	.51	.13	.22	2.45	.74																										4.23		
Longs Peak (near).	do.	.75	.27	.20	1.67	2.40																										5.89		
Merino.	do.																																	
Monaine.	do.	1.33	.06	*	*	3.33																										4.76		
Platte Canon.	do.																																	
St. Cloud.	do.	1.00																															3.56	
Sedgewick.	do.	.23	.33	.69	.50																											1.75		
Silver Lake.	do.																																	
Spicer (near).	North Platte.	.18	.32	.45	1.03	.30																										2.33		
Sterling.	South Platte.	.18	.32	.45	1.03	.30																												
Waterdale.	do.	.13	.25	.02	1.75	.98																										2.73		
Wray.	Republican.	.03	.23	.23	.57	1.05	.26																									2.40		
Yuma.	do.																																	
<i>Nebraska.</i>																																		
Ainsworth.	Niobrara.	.27	.40	.58	.21	.14																										1.82		
Albion.	Loup.	.21	.62	.17	.78	.82																										3.80		
Alliance.	North Platte.	.15	.30	.50	T.	.10																										1.10		
Alma.	Republican.	T.	.50	1.20	.64	.91	.90																								4.62			
Arcadia.	Loup.	.42	.90	.04	4.9	2.22	T.																								4.82			
Arden [I]	do.	.15	.80	.04	T.	.88	1.00																								3.18			
Ashland.	Platte.	.05	.21	.21	T.	.97	1.18																								3.06			
Ashton.	Loup.		.35	1.06	.11	.75	.89																								4.55			
Atkinson [I]	Elkhorn.	T.	.11	.22	.07	T.																									0.45			
Auburn.	Missouri.	.03	.68	.12	1.01	.87	.03																								4.39			
Aurora.	Blue.																																	
Beatrice [I].	do.	.22	.23	.24	.45	1.19	.38	.28																						4.76				
Beaver City.	Republican.	.02	.35	1.05	.51	1.05	.91																							4.75				
Bellevue.	Missouri.	.07	.26	.26	.45	1.19	.05																							2.51				
Benkelman.	Republican.																																	
Bertrand [I].	do.	.57	.86	.12	1.01	.87	.03																							3.93				
Blair.	Loup.	.01	.10	.12	.47	1.15																									2.12			
Bloomfield.	Missouri.	.02	.20	.23	3.00		.05																								3.66			
Bradshaw [I].	Blue.	T.	.35																															

TABLE 2.—*Daily precipitation for December, 1913. District No. 6—Continued.*

Stations.	Watershed.	Day of month.																																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total.		
Nebraska—Contd.																																			
Grant.	Republican.	.24	.66	.36	1.44	.															10												2.80		
Greely.	Loup.	.25	.23	.75	.03	.88	1.60													.01												3.75			
Guide Rock.	Republican.	.30	.40	.70	1.66	.25														.55	.70											4.75			
Halger.	do.	.05	12	.58	.02	1.09	.01													.07	.05											1.60			
Halsey.	Loup.	.05	12	.58	.02	1.09	.01													T.	.13											0.37			
Martington.	Missouri.	.06	.05	.02	.06	T.														T.	.82												4.93		
Hastings II.	Blue.	.37	.48	13	1.38	1.53	.14														.60												6.18		
Hayes Center.	Republican.	.45	1.06	.22	2.20	1.65														T.	T.	T.										1.75			
Hay Springs.	White.	.15	.40	.40	.30	.50														T.	T.	T.										1.75			
Hebron.	Blue.	.04	15	.22	.22	1.62	1.17	.03												.15	.66											4.29			
Hemingford II.	Niobrara.	.12	.05	.25	.59																.08												1.07		
Hendley II.	Republican.	.35	1.16	.06	1.00	1.33															.85												4.75		
Hershey II.	South Plate.	.38	.80	.10	.75	.85														.03	.19											3.10			
Hillside.	North Plate.	.09	.20	.52	.06	2.29	.07													T.	.50												2.38		
Holdrege II.	Republican.	.05	45	.98	10	1.15	.92	.04													.22	T.											4.19		
Hooper.	Elkhorn.	.12	.09	.18	.11	.32	.51														.10												1.55		
Hull (near) II.	North Plate.	.33	.40	.20	T.	1.60																											2.63		
Imperial.	Republican.	.21	.62	.12	.50	2.10	.10													T.	*	.20											3.85		
Kearney.	Platte.	.39	.95	.09	1.55	.85														.39	.30												4.62		
Kimball II.	South Plate.	1.00	.20	.10	.98	.20														.05													2.53		
Kirkwood.	Niobrara.	.12	*	.30	.12															T.													0.54		
Kowanda II.	North Plate.	.08	13	.11	.02	1.23	.28														.33	.27											1.87		
Lexington.	Platte.	.06	.30	.94	.19	1.31	.53														.41	.20											3.93		
Lincoln.	do.	.05	.27	.19	.23	1.72	.95													.31	.20											4.68			
Lodgepole.	South Plate.	.50	.15	.43	.10	.60															.37	.43											2.29		
Loup City.	Loup.	.03	.38	1.25	.11	1.80	1.17													.31												5.54			
Loyal II.	do.	T.	.27	.77	.04	1.42	.70													.05												3.51			
Lynch.	Missouri.	.05	.04	.12																	.04	.19												0.26	
McCook JI.	Republican.	.02	.31	.90	.05	.76	.87	.05												.80	T.												3.19		
McCool Junction II.	Blue.	.22	.33	.07	.95	2.13	.36														.20	.50											4.86		
Madison.	Elkhorn.	T.	.15	.26	T.	.25	.91													.45	.26											2.26			
Marquette.	Blue.	.22	.68	.08	1.58	.59														.05	.02											4.34			
Mary.	Loup.	.13	.33	.80	.03	.77														.75												2.13			
Mason City II.	do.	.04	1.06	.10	1.60	1.50														.08												5.65			
Minatare.	North Plate.	.50	.15	.55	.35	.11															.93	.02											1.71		
Minden.	Blue.	.41	11	.07	.41	1.45	.50														.82	.64											5.39		
Mitchell.	North Plate.	.26	.13	.25	.11	.30															.46												5.39		
Nebraska City.	Missouri.	.10	.26	.20	T.	.72	1.58	.40												.35	.15											4.55			
Nelson.	Blue.	.24	.62		.15	2.00	.12													.08												5.26			
Norfolk.	Elkhorn.	T.	.14	.16	T.	T.	1.12	.02													.46												1.90		
North Loup.	Loup.	.45	.84		.87	1.08															.35	.15											4.74		
North Plate.	Platte.	.14	.60	.28	.37	1.41														.01	.26											3.09			
Oakdale.	Elkhorn.	T.	.23	.35	*	1.03															.25												1.86		
Omaha.	Missouri.	.02	.14	.21		.82	.82														.07	.07											0.53		
O'Neill II.	Elkhorn.	T.	.15	.23																	.15												5.25		
Ord.	Loup.	.06	.38	1.08	.02	2.12	1.12														.44	.03												5.25	
Orleans.	Republican.																																	1.03	
Osceola.	Blue.	.18	.20																																1.03
Oshkosh.	North Plate.	.10	.16	.60	.36	1.11															.02	T.												2.35	
Palisade.	Republican.	.22	.68		.20																.11												3.03		
Pawnee City.	Missouri.	.50	.25	2.00	1.40																	.37												4.62	
Paxton.	South Plate.	.07	.15	.66	.25	1.63	.04														.08												2.88		
Plymouth II.	Blue.																																	3.78	
Purdum.	Loup.	.07	.16	.53	.02	1.17	.74														.05												2.02		
Ravenna.	do.	.02	.33	1.16	.64	1.68	.74														.60	.40											4.99		
Red Cloud.	Republican.	.03	.28	.47	.24	1.45	.89														.39	.34											4.11		
St. Libory.	Platte.																																	4.19	
Santee.	Missouri.	.20	.79	.04	1.41	1.06																.21	.48											2.65	
Schuyler.	Platte.	.05	.20	.26	.03	1.10	.75															.57												2.22	
Scottsbluff.	North Plate.	.25	.70	.45	.16	.42															.02	.20											4.11		
Seward.	Blue.	.12	.20	.30	.08	1.28	.42														.16	.37											3.26		
Tidey.	South Plate.	.21	.45	.40	.55	1.30																.20											3.91		
University Farm.	Platte.	.58	.10	.30	T.	.30	1.90	.68														.05												4.03	
Upham II.	Republican.	.27	.20	.27	.01	1.25	1.50															.45	.20											1.85	
Valentine.	Niobrara.	.41	.17	.20	.01	.08																.25												2.62	
Wahoo.	Platte.	.18	.38			.45	1.72	.82					</td																						

TABLE 2.—*Daily precipitation for December, 1913. District No. 6—Continued.*

TABLE 2.—*Daily precipitation for December, 1913. District No. 6—Continued.*

Stations.	Watershed.	Day of month.																													Total		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
<i>Missouri.</i>																																	
Amoret.	Osage.	.39	.26	T.	1.60	T.																											2.96
Appleton City.	do.	.20	.20																													3.20	
Arlington ||.	Gasconade.	.15																														1.38	
Arthur.	Osage.																																
Avalon.	Grand.	.10	.30		.60	.77																										2.02	
Bethany.	do.																																
Boilver.	Osage.	T.	T.	.06	T.	1.37	.26	.05																								2.69	
Booneville ||.	Missouri.	.17	T.	.30	.70																											2.11	
Brunswick ||.	Grand.	.35		.12		.18	1.08																								2.36		
Clinton.	Osage.	.20				1.60	.17																								2.54		
Columbia.	Missouri.					T.	.63	.09																							1.94		
Conception.	do.	T.	.04	.29	T.	.56	.80																								2.00		
Crocker.	Gasconade.					1.30	T.																								2.21		
Duncan.	Osage.	.01	.04		1.10	.29																									2.26		
Eldon.	do.	T.	T.		1.16	.05																									2.43		
Fayette.	Missouri.	T.			.66	.20																									1.95		
Fulton.	do.	.18		.06			.42	.96																							1.49		
Glasgow ||.	Grand.	T.	T.	.25		.55	1.02	.20																						2.22			
Grant City.	Osage.	.04		.58		.52	1.66																								3.47		
Harrisonville ||.	do.																															2.87	
Hermann ||.	Missouri.	.03																														1.12	
Houston.	Gasconade.					T.		.60																								1.42	
Jefferson City ||.	Missouri.	.40																														2.40	
Kansas City.	do.	.58	.12	.02	1.65	.14	.01																								3.35		
Keytesville ||.	do.	.09																														1.88	
Kidder ||.	Grand.	.80				.51	.80																								2.24		
Lamonte.	Missouri.	T.	.26	.11	T.	1.45	.25																							3.00			
Lebanon.	Osage.																															1.95	
Lexington ||.	Missouri.	.68	.30																													3.43	
Liberty.	do.	.40		.36	T.	1.65	.57																								3.61		
Lookwood.	Osage.	.15	.18	T.	1.30																										2.54		
Marshall.	Missouri.	T.	.07		T.	.99	.46																								2.21		
Maryville ||.	do.	.37	T.		T.	.39	.47	.30																							2.26		
Mount Vernon.	Osage.	T.	.10	.10	.88	T.																									2.33		
Nevada.	do.	.44	.14		1.84		.15																								3.46		
Oregon.	Missouri.																															2.63	
Rolla.	Gasconade.																															1.59	
St. Catherine.	Grand.	.02	T.	.12		T.	.88																								1.44		
St. Charles.	Missouri.					T.	.17	T.																							1.06		
St. Joseph.	do.	T.	.64	.10	.10	1.08	.64																							2.80			
St. Louis (1).	Mississippi.					T.	T.	.12	.01	.01																				1.02			
St. Louis (2).	do.					T.		.14	.03	T.																					2.29		
Sublett.	Chariton.	T.	T.																													2.45	
Tarkio.	Missouri.																															3.13	
Trenton.	Grand.	.48	T.			1.32	.08																								2.39		
Unionville ||.	Chariton.	.90	T.	.46	T.		.95	.15																							3.63		
Warrensburg.	Missouri.	.17	.13		1.69	.20																									3.33		
Warrenton ||.	do.																															1.29	
Warsaw.	Osage.	T.	.16	T.	1.27	.61																									3.47		
Wheatland.	do.																															2.43	

* Precipitation included in that of the next measurement.

† Separate dates of falls not recorded.

|| Precipitation for the 24 hours ending on the morning when it is measured.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 3.—Maximum and minimum temperatures at selected stations for December, 1913. District No. 6, Missouri Valley.

Date.	Wyoming.														Montana.													
	Basin.		Cheyenne.		Fort Laramie.		Lander.		Newcastle.		Pathfinder.		Sheridan.		Yellowstone Park.		Billings.		Dillon.		Havre.		Helena.		Lewis-town.		Malta.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1....	48	20	30	23	34	21	30	24	38	30	30	25	35	23	27	12	44	24	39	12	38	16	39	28	34	19	30	15
2....	50	16	24	15	35	26	23	17	32	23	23	21	35	25	27	7	44	14	38	13	36	10	32	15	43	10	23	8
3....	46	6	26	19	36	12	24	8	30	22	27	19	39	17	33	6	47	14	38	8	38	10	23	15	50	11	30	12
4....	47	4	25	18	40	21	21	6	38	24	25	14	33	14	39	15	47	12	39	2	36	10	30	13	49	18	23	15
5....	40	-2	30	26	38	24	35	12	41	33	31	19	46	16	35	8	47	14	40	10	49	9	33	14	51	19	33	14
6....	50	-1	31	15	33	20	40	10	40	28	27	9	41	18	37	10	44	14	41	11	34	16	35	16	42	19	28	12
7....	56	10	41	8	23	-2	23	0	32	18	30	9	30	12	39	20	43	11	40	12	48	19	44	21	46	18	30	11
8....	50	-6	39	11	29	0	24	0	40	18	29	14	46	12	35	11	48	10	37	10	45	18	37	20	50	11	34	12
9....	46	8	35	10	30	2	25	-4	42	18	21	3	56	12	37	11	51	27	40	11	51	23	34	17	56	18	36	11
10....	40	-9	35	18	33	5	20	-4	45	22	28	2	56	12	40	10	53	24	40	14	52	15	35	15	61	22	34	5
11....	34	-11	41	15	37	-1	24	-4	45	28	34	22	47	8	41	15	55	23	41	15	49	27	46	21	51	21	38	7
12....	30	-9	32	13	33	0	22	0	48	22	28	10	48	13	36	16	51	21	42	10	51	19	41	24	51	19	36	21
13....	30	7	37	10	32	0	20	-3	44	18	26	2	49	9	37	11	51	16	45	12	41	20	49	21	20	10	39	11
14....	29	-9	39	14	32	-1	26	-1	42	18	35	14	36	11	40	19	41	11	46	12	43	14	39	20	44	19	20	11
15....	30	-8	41	15	40	1	25	5	48	28	33	21	46	14	38	12	50	13	48	15	46	14	46	23	42	15	21	15
16....	26	-12	32	15	33	10	24	5	44	20	26	16	43	4	29	3	49	14	45	16	48	19	32	17	50	14	39	10
17....	24	9	33	12	25	0	22	3	44	18	31	6	37	2	32	4	45	13	35	13	40	12	34	13	51	14	38	6
18....	26	-6	35	8	28	0	24	2	42	18	35	23	42	12	28	11	45	15	42	10	31	18	33	13	32	18	28	6
19....	29	5	19	9	25	-1	23	14	30	20	28	15	22	13	24	8	25	15	40	5	22	7	30	13	20	16	27	9
20....	29	-6	23	0	22	4	16	-8	20	2	16	-1	31	1	24	0	30	-2	39	3	29	0	23	7	27	5	22	4
21....	26	-11	27	1	21	-3	6	-15	24	10	10	-8	37	2	23	-2	34	4	37	0	34	-1	21	5	26	2	18	-8
22....	24	9	29	11	31	-2	6	3	21	8	20	6	35	-1	22	9	37	8	39	4	37	2	27	2	20	1	24	1
23....	21	-8	30	12	32	-2	2	2	28	10	24	17	32	6	24	11	40	14	40	9	16	15	28	12	30	12	20	1
24....	20	-9	22	3	30	10	25	8	28	14	19	11	29	-1	22	8	24	16	40	11	16	-5	24	3	31	3	14	-3
25....	22	-12	32	3	32	11	15	10	24	12	26	9	21	-5	28	13	24	1	43	15	14	-6	30	14	35	2	15	3
26....	20	-9	33	15	34	-4	23	-2	28	6	27	17	38	13	34	21	38	11	42	12	17	2	38	21	32	10	11	-6
27....	20	-12	30	14	32	-8	15	-7	28	14	23	5	39	8	28	12	37	6	44	14	36	0	29	18	42	10	18	-8
28....	18	-16	37	9	32	0	9	-12	24	13	26	14	42	4	31	9	41	14	43	13	44	18	28	14	37	15	20	8
29....	18	17	28	5	26	2	4	-14	24	14	22	-3	38	3	24	1	30	4	43	14	30	9	23	13	37	13	22	-5
30....	26	-8	32	11	38	-10	17	-13	30	14	24	4	40	9	28	11	36	0	41	17	22	6	24	11	37	2	22	-2
31....	34	-4	45	22	40	2	46	-5	36	14	33	7	48	7	36	20	38	11	42	17	35	7	45	21	40	3	26	-1
Mins..	32.8	-5.4	31.8	12.3	31.8	4.5	21.9	-0.7	35.1	17.8	26.5	11.2	39.3	9.6	31.5	10.4	41.3	12.5	41.3	11.0	36.2	11.1	32.	15.9	41.3	13.2	28.	5.3

Date.	Montana.				North Dakota.								South Dakota.										Pierre.		Rapid City.			
	Miles City.		Poplar.		Berthold Agency.		Bismarck.		Dickinson.		James-town.		Williston.		Aberdeen.		Ellingson.		Huron.		Kadoka.		Kimball.		Pierre.		Rapid City.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1....	41	29	35	20	42	14	38	26	40	16	34	21	35	16	44	30	44	21	39	17	40	31	43	35	39	36	41	30
2....	38	18	37	6	32	19	31	25	28	17	33	23	26	15	45	43	33	19	43	37	30	43	35	38	32	31	25	
3....	40	22	45	11	37	23	30	25	42	24	27	24	28	16	43	43	35	22	41	36	32	42	37	36	33	39	21	
4....	41	20	43	16	46	23	35	20	46	20	40	32	40	17	40	35	44	34	37	27	44	37	42	30	45	25		
5....	42	18	49	14	48	15	45	19	46	20	37	25	44	19	42	25	48	16	40	28	28	42	33	40	31	45	34	
6....	37	28	40	19	36	14	34	14	32	23	33	21	30	10	40	25	46	23	37	22	38	22	35	25	47	22		
7....	35	14	37	2	28	4	25	5	26	-1	24	7	32	5	30	25	26	2	23	12	32	9	28	15	36	14		
8....	44	19	40	13	43	10	44	17	45	13	42	10	40	21	45	10	50	14	46	11	45	26	28	17	45	24		
9....	55	15	43	16	47	8	48	17	50	18	42	20	44	19	50	14	55	18	53	15	48	20	58	21	57	26		
10....	52	24	48	13	57	5	53	20	56	16	48	21	50	19	52	17	55	21	50	19	53	21	51	27				

TABLE 3.—Maximum and minimum temperatures at selected stations for December, 1913. District No. 6—Continued.

Date.	South Dakota.				Colorado.				Nebraska.												Oakdale.		Omaha.					
	Sioux Falls.		Watertown.		Yankton.		Denver.		Wray.		Alma.		Bridgeport.		Grand Island.		Hay Springs.		Hebron.		Lincoln.		North Platte.		Oakdale.		Omaha.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1.....	48	35	35	27	43	36	30	27	46	39	46	39	37	32	46	41	34	25	49	44	49	45	43	38	45	39	50	46
2.....	48	35	38	30	46	41	39	22	42	30	47	43	33	29	50	44	32	25	50	47	52	47	48	40	45	54	46	46
3.....	48	38	41	34	45	41	31	21	35	28	48	45	32	26	50	46	30	25	53	50	54	50	47	45	43	52	49	47
4.....	48	38	41	34	47	43	32	22	45	33	48	44	44	44	50	46	35	25	50	49	51	48	47	45	45	52	49	47
5.....	40	32	43	25	44	37	34	30	43	33	44	39	44	44	43	42	35	30	50	44	46	43	43	33	45	37	47	42
6.....	44	32	41	25	43	26	39	17	35	28	39	33	37	26	40	37	33	28	44	37	43	31	39	26	40	25	45	31
7.....	40	10	26	8	26	16	32	10	30	11	40	20	23	5	33	22	28	2	37	23	31	22	36	17	25	12	31	20
8.....	40	10	41	9	40	15	38	10	37	16	42	17	33	11	40	21	37	12	37	19	38	20	46	15	40	12	37	21
9.....	49	12	47	13	52	20	39	12	38	13	43	20	30	6	48	24	40	8	37	23	46	22	42	20	49	18	48	28
10....	50	24	52	18	49	26	41	15	41	16	49	22	32	14	52	26	41	15	42	27	50	31	49	22	50	25	48	33
11....	50	24	57	16	61	25	40	12	43	15	44	21	31	5	52	28	37	7	49	28	50	31	46	21	53	21	55	34
12....	58	22	57	14	48	24	36	10	39	13	48	20	32	11	48	26	36	17	51	30	54	34	51	18	49	23	55	34
13....	59	24	57	14	46	22	37	12	40	19	43	22	31	7	47	26	38	10	45	31	46	33	51	21	45	19	51	34
14....	55	23	49	17	42	22	42	14	42	13	48	22	32	5	49	29	34	14	50	25	48	28	50	18	42	21	45	30
15....	55	22	50	20	45	27	42	15	42	13	43	17	37	10	48	29	40	12	49	27	52	32	48	18	46	26	50	34
16....	49	23	50	18	46	27	36	14	42	24	45	25	35	5	47	28	38	16	38	30	47	29	47	23	45	21	46	29
17....	48	22	45	13	45	22	35	15	42	19	47	27	35	5	47	26	32	7	49	32	51	30	50	17	46	18	43	27
18....	49	22	46	13	48	17	33	8	36	19	48	17	32	9	47	23	28	20	48	23	47	24	36	16	43	14	45	27
19....	48	23	30	14	42	26	24	8	32	25	38	33	31	18	48	33	21	4	42	31	43	33	33	17	35	23	44	34
20....	25	5	22	1	26	7	20	1	25	14	35	14	23	1	16	14	25	15	31	16	38	13	24	6	23	3	36	15
21....	35	5	25	0	31	9	24	0	27	4	28	5	17	— 5	20	4	25	— 1	29	3	27	9	31	5	25	1	32	20
22....	30	6	35	5	33	9	33	2	36	4	32	11	32	— 6	21	10	22	— 3	30	10	28	15	30	5	27	0	31	26
23....	22	5	33	6	36	17	30	13	32	4	31	12	27	— 1	24	9	28	— 2	34	11	32	20	30	5	29	31	31	26
24....	20	5	23	9	19	10	26	5	32	4	30	20	26	11	28	20	20	15	24	22	32	20	28	10	22	10	31	19
25....	20	— 3	15	— 10	18	2	32	3	33	4	23	1	28	— 6	14	6	22	5	22	8	20	10	20	11	24	3	31	8
26....	26	0	25	— 10	30	5	34	9	33	11	— 2	23	23	9	29	6	33	20	25	3	27	6	23	10	24	0	26	10
27....	28	5	23	— 1	30	12	35	15	36	15	32	8	28	7	29	14	33	8	28	19	32	22	35	12	30	10	32	25
28....	30	7	29	6	32	4	38	— 13	39	12	33	3	28	3	28	9	33	6	33	9	31	14	34	9	29	1	32	15
29....	43	12	39	12	41	19	30	3	37	7	36	5	23	23	1	34	14	35	5	35	18	40	12	37	11	39	20	
30....	36	10	38	11	40	11	33	1	34	3	26	5	26	1	31	12	30	1	32	14	33	19	24	10	34	8	36	23
31....	40	10	25	12	27	20	52	15	44	14	30	13	40	12	34	19	33	6	28	22	28	19	37	12	24	20	28	19
Mns...	41.4	17.2	40.9	21.5	39.5*	17.6*	39.0	22.9	34.6	18.5	42.4	27.7	41.5	26.1	42.1	29.9	41.1	25.9	43.6	32.1	43.3	32.3	46.7	35.6	41.3	26.8		

Date.	Iowa.						Kansas.						Missouri.																										
	Valentine, Nebr.			Clarinda.			Sibley.			Sioux City.			Colby.			Concordia.			Salina.			Topeka.			Wakeeney.			Columbia.			Kansas City.			St. Louis.			Unionville.		
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.					
1.....	38	33	55	50	41	34	44	39	49	40	54	46	53	45	56	51	50	42	58	51	57	52	63	51	60	50	55	52	63	54	55	52	50						
2.....	37	32	56	50	46	37	48	45	45	35	52	50	52	44	53	50	49	44	61	50	54	52	60	54	56	50	55	52	63	54	55	52	50						
3.....	36	33	54	50	46	40	48	44	44	31	54	51	51	49	54	52	51	46	59	54	54	52	60	54	56	50	55	52	63	54	55	50	50						
4.....	43	35	50	48	49	43	32	44	48	40	52	48	49	44	49	47	47	47	54	49	54	52	64	48	54	45	52	50	64	48	54	45	42						
5.....	40	33	49	43	43	34	44	38	48	33	48	44	44	44	49	47	47	40	50	47	50	48	54	46	54	42	52	50	55	48	54	42	42						
6.....	36	22	45	43	42	32	44	28	35	31	46	34	45	38	50	38	38	42	34	57	44	53	42	60	50	57	40	49	44	52	40	49	40						
7.....	31	13	44	21	25	11	28	16	31	9	34	24	39	28	38	26	38	35	38	23	47	25	52	44	52	40	49	38											